

REMARKS

A Notice of Allowance has been mailed from the USPTO for the above-referenced application. The Examiner contacted the undersigned by telephone indicating that Tables 5 and 6 were not sufficiently clear for printing the forthcoming Letters Patent. Applicants submit herewith Replacement Sheets containing Tables 5 and 6. No issue of new matter arises from this submission since the Replacement Sheets are merely clearer copies of the Tables 5 and 6 as filed.

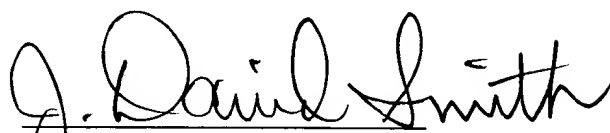
Fees

No fees are believed to be necessary in connection with this Amendment. However, if this is in error, authorization is hereby given to charge Deposit Account No. 11-1153 for any underpayment, or credit any overages.

Conclusion

If a discussion might be of assistance in resolving any issues, the Examiner is invited to telephone the undersigned.

Respectfully submitted,



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REPLACEMENT SHEET

ATOM	255	HQ1 THH	17	10.098	1.223	6.144	1.00	0.00	ATOM	349	HD23 LBU	22	8.803	-4.924	3.008	1.00	0.00	ATOM	443	ND1 H1S	28	-4.254	1.759	13.538	1.00	0.00
ATOM	256	CG2 THH	17	7.971	0.832	4.783	1.00	0.00	ATOM	350	C LBU	22	1.493	-5.566	8.214	1.00	0.00	ATOM	444	HD1 H1S	28	-4.083	1.459	13.558	1.00	0.00
ATOM	257	HQ21 THH	17	7.078	0.224	4.720	1.00	0.00	ATOM	351	O LBU	22	2.546	-5.862	8.525	1.00	0.00	ATOM	445	CD2 H1S	28	-4.569	1.477	10.377	1.00	0.00
ATOM	258	HQ22 THH	17	8.088	1.395	5.616	1.00	0.00	ATOM	352	N LBU	23	0.310	-5.868	8.971	1.00	0.00	ATOM	446	HD1 H1S	28	-4.665	1.477	9.340	1.00	0.00
ATOM	259	HQ23 THH	17	7.883	1.513	5.616	1.00	0.00	ATOM	353	HN GLN	23	2.447	-5.617	8.666	1.00	0.00	ATOM	447	CEL H1S	28	-4.533	3.006	12.191	1.00	0.00
ATOM	260	CG1 THH	17	7.883	1.513	5.616	1.00	0.00	ATOM	354	CA GLN	23	2.402	-5.598	10.262	1.00	0.00	ATOM	448	HE1 H1S	28	-4.587	3.006	12.459	1.00	0.00
ATOM	261	O THH	17	6.752	-1.785	4.922	1.00	0.00	ATOM	355	HN GLN	23	2.006	-5.598	10.589	1.00	0.00	ATOM	449	NE2 H1S	28	-4.719	3.042	10.886	1.00	0.00
ATOM	262	N LBU	18	7.574	-2.559	4.697	1.00	0.00	ATOM	356	CA GLN	23	3.568	-6.635	12.006	1.00	0.00	ATOM	450	CD1 H1S	28	-4.533	3.042	10.886	1.00	0.00
ATOM	263	HN LBU	18	8.339	-5.578	4.083	1.00	0.00	ATOM	357	HN GLN	23	3.568	-6.635	12.006	1.00	0.00	ATOM	451	C H1S	28	-6.323	1.004	10.886	1.00	0.00
ATOM	264	CA LBU	18	6.359	-3.302	4.310	1.00	0.00	ATOM	358	HE2 GLN	23	4.588	-7.956	10.640	1.00	0.00	ATOM	452	O H1S	28	-6.982	-1.724	11.800	1.00	0.00
ATOM	265	HA LBU	18	5.555	-2.597	4.289	1.00	0.00	ATOM	359	CG GLN	23	4.588	-7.956	10.640	1.00	0.00	ATOM	453	N H1S	28	-6.980	-0.037	13.241	1.00	0.00
ATOM	266	CG LBU	18	6.550	-4.968	2.955	1.00	0.00	ATOM	360	HO1 GLN	23	4.588	-7.956	10.640	1.00	0.00	ATOM	454	HN GLN	29	-6.109	0.472	13.374	1.00	0.00
ATOM	267	CG LBU	18	5.507	-4.968	2.955	1.00	0.00	ATOM	361	HO2 GLN	23	4.588	-7.956	10.640	1.00	0.00	ATOM	455	HA GLN	29	-8.100	0.272	13.334	1.00	0.00
ATOM	268	CG LBU	18	6.964	-2.940	1.875	1.00	0.00	ATOM	362	CG GLN	23	3.975	-8.191	11.521	1.00	0.00	ATOM	456	HA GLN	29	-8.371	1.007	14.538	1.00	0.00
ATOM	269	CG LBU	18	7.969	-2.940	2.075	1.00	0.00	ATOM	363	CG GLN	23	3.975	-8.191	11.521	1.00	0.00	ATOM	457	HA GLN	29	-8.371	1.007	14.538	1.00	0.00
ATOM	270	CG LBU	18	6.964	-2.940	2.075	1.00	0.00	ATOM	364	HE2 GLN	23	3.975	-8.191	11.521	1.00	0.00	ATOM	458	HA GLN	29	-8.371	1.007	14.538	1.00	0.00
ATOM	271	CD1 LBU	18	7.945	-3.607	0.510	1.00	0.00	ATOM	365	HE2 GLN	23	3.975	-8.191	11.521	1.00	0.00	ATOM	459	HA GLN	29	-8.371	1.007	14.538	1.00	0.00
ATOM	272	HD11 LBU	18	6.748	-0.274	1.00	0.00	0.00	ATOM	366	HE2 GLN	23	3.975	-8.191	11.521	1.00	0.00	ATOM	460	CG GLN	29	-7.180	-0.560	15.445	1.00	0.00
ATOM	273	HD12 LBU	18	6.748	-0.274	1.00	0.00	0.00	ATOM	367	C GLN	23	1.374	-5.941	11.151	1.00	0.00	ATOM	461	HE1 GLN	29	-6.929	1.021	16.203	1.00	0.00
ATOM	274	HD13 LBU	18	6.748	-0.274	1.00	0.00	0.00	ATOM	368	O GLN	23	1.374	-5.941	11.151	1.00	0.00	ATOM	462	HC2 GLN	29	-6.929	1.021	16.203	1.00	0.00
ATOM	275	HD14 LBU	18	6.748	-0.274	1.00	0.00	0.00	ATOM	369	N GLN	24	1.562	-4.843	11.646	1.00	0.00	ATOM	463	CD GLN	29	-8.162	-0.400	16.925	1.00	0.00
ATOM	276	HD21 LBU	18	5.118	-1.943	1.00	0.00	0.00	ATOM	370	CA GLN	24	1.562	-4.843	11.646	1.00	0.00	ATOM	464	HE1 GLN	29	-8.162	-0.400	16.925	1.00	0.00
ATOM	277	HD22 LBU	18	5.118	-1.943	1.00	0.00	0.00	ATOM	371	CA GLN	24	1.562	-4.843	11.646	1.00	0.00	ATOM	465	HE1 GLN	29	-8.162	-0.400	16.925	1.00	0.00
ATOM	278	HD23 LBU	18	6.549	-0.988	2.401	1.00	0.00	ATOM	372	CA GLN	24	1.562	-4.843	11.646	1.00	0.00	ATOM	466	HE1 GLN	29	-8.162	-0.400	16.925	1.00	0.00
ATOM	279	C LBU	18	6.037	-4.376	5.349	1.00	0.00	ATOM	373	CG GLN	24	1.369	-4.580	13.142	1.00	0.00	ATOM	467	HE22 GLN	29	-10.363	-0.935	17.267	1.00	0.00
ATOM	280	O LBU	18	4.961	-4.376	5.349	1.00	0.00	ATOM	374	HN GLN	24	2.330	-2.973	13.260	1.00	0.00	ATOM	468	C GLN	29	-6.607	1.069	13.137	1.00	0.00
ATOM	281	N LBU	19	6.956	-5.310	5.349	1.00	0.00	ATOM	375	HN GLN	24	2.330	-2.973	13.260	1.00	0.00	ATOM	469	O GLN	29	-5.784	1.378	12.034	1.00	0.00
ATOM	282	CA LBU	19	6.956	-5.310	5.349	1.00	0.00	ATOM	376	CG GLN	24	1.956	-4.152	11.817	1.00	0.00	ATOM	470	N SER	30	-6.785	1.058	11.506	1.00	0.00
ATOM	283	CA LBU	19	6.956	-5.310	5.349	1.00	0.00	ATOM	377	CG GLN	24	1.956	-4.152	11.817	1.00	0.00	ATOM	471	HN SER	30	-6.785	1.058	11.506	1.00	0.00
ATOM	284	HA LBU	19	5.946	-6.395	6.158	1.00	0.00	ATOM	378	CG GLN	24	1.956	-4.152	11.817	1.00	0.00	ATOM	472	HN SER	30	-6.785	1.058	11.506	1.00	0.00
ATOM	285	CB LBU	19	8.029	-7.225	6.535	1.00	0.00	ATOM	379	CG GLN	24	2.702	-0.671	13.320	1.00	0.00	ATOM	473	HA SER	30	-9.149	2.199	9.988	1.00	0.00
ATOM	286	HBI LBU	19	8.522	-7.225	6.535	1.00	0.00	ATOM	380	CD GLN	24	3.210	-0.371	13.320	1.00	0.00	ATOM	474	CB SER	30	-7.375	3.385	9.974	1.00	0.00
ATOM	287	HBI LBU	19	7.748	-8.232	6.897	1.00	0.00	ATOM	381	NE2 GLN	24	3.082	0.227	11.266	1.00	0.00	ATOM	475	HBI SER	30	-6.453	3.269	9.324	1.00	0.00
ATOM	288	HB1 LBU	19	9.033	-6.730	6.897	1.00	0.00	ATOM	382	NE2 GLN	24	3.082	0.227	11.266	1.00	0.00	ATOM	476	HB2 SER	30	-8.013	4.090	9.362	1.00	0.00
ATOM	289	HB1 LBU	19	9.033	-6.730	6.897	1.00	0.00	ATOM	383	HE2 GLN	24	3.795	0.862	11.466	1.00	0.00	ATOM	477	CG SER	30	-7.079	3.890	11.362	1.00	0.00
ATOM	290	HB2 LBU	19	9.033	-6.730	6.897	1.00	0.00	ATOM	384	HE2 GLN	24	3.795	0.862	11.466	1.00	0.00	ATOM	478	CG SER	30	-7.079	3.890	11.362	1.00	0.00
ATOM	291	CD LBU	19	10.412	-7.319	7.429	1.00	0.00	ATOM	385	C GLN	24	-0.929	-3.813	11.254	1.00	0.00	ATOM	479	CG SER	30	-7.079	3.890	11.362	1.00	0.00
ATOM	292	HD1 LBU	19	10.559	-6.643	6.365	1.00	0.00	ATOM	386	N VAL	25	-0.577	-2.936	10.456	1.00	0.00	ATOM	480	O SER	30	-8.035	1.154	7.611	1.00	0.00
ATOM	293	HD2 LBU	19	11.156	-6.643	6.365	1.00	0.00	ATOM	387	HN VAL	25	-0.288	-2.811	10.407	1.00	0.00	ATOM	481	N AUA	31	-7.089	-0.039	8.962	1.00	0.00
ATOM	294	CA LBU	19	10.567	-8.671	8.106	1.00	0.00	ATOM	388	CA VAL	25	-2.139	-2.477	9.743	1.00	0.00	ATOM	482	HN AUA	31	-6.876	-0.224	9.880	1.00	0.00
ATOM	295	HE1 LBU	19	9.987	-9.601	7.560	1.00	0.00	ATOM	389	HA VAL	25	-2.139	-2.477	9.743	1.00	0.00	ATOM	483	CA AUA	31	-6.413	-0.246	7.934	1.00	0.00
ATOM	296	HE2 LBU	19	9.987	-9.601	7.560	1.00	0.00	ATOM	390	CA VAL	25	-2.139	-2.477	9.743	1.00	0.00	ATOM	484	HA AUA	31	-6.413	-0.246	7.934	1.00	0.00
ATOM	297	NE2 LBU	19	11.988	-8.538	9.117	1.00	0.00	ATOM	391	CA VAL	25	-2.139	-2.477	9.743	1.00	0.00	ATOM	485	HA AUA	31	-6.413	-0.246	7.934	1.00	0.00
ATOM	298	HE2 LBU	19	12.044	-10.147	8.030	1.00	0.00	ATOM	392	CG VAL	25	-2.139	-2.477	9.743	1.00	0.00	ATOM	486	HA AUA	31	-6.413	-0.246	7.934	1.00	0.00
ATOM	299	HE2 LBU	19	12.526	-8.651	9.057	1.00	0.00	ATOM	393	CG VAL	25	-0.774	-0.102	7.858	1.00	0.00	ATOM	487	HB2 AUA	31	-4.785	-2.407	9.541	1.00	0.00
ATOM	300	HE3 LBU	19	12.526	-8.651	9.057	1.00	0.00	ATOM	394	HB1 VAL	25	0.434	-1.358	7.551	1.00	0.00	ATOM	488	HB3 AUA	31	-4.785	-2.407	9.541	1.00	0.00
ATOM	301	C LBU	19	6.349	-5.772	7.633	1.00	0.00	ATOM	395	HB1 VAL	25	0.024	-0.925	9.234	1.00	0.00	ATOM	489	C AUA	31	-7.906	-1.726	6.483	1.00	0.00
ATOM	302	N LBU	19	5.624	-6.390	8.446	1.00	0.00	ATOM	396	CG2 VAL	25	-1.061	-3.301	7.433	1.00	0.00	ATOM	490	O AUA	31	-7.906	-1.726	6.483	1.00	0.00
ATOM	303	CA LBU	19	5.624	-6.390	8.446	1.00	0.00	ATOM	397	HB2 VAL	25	-1.924	-2.747	7.330	1.00	0.00	ATOM	491	N AUA	31	-9.042	-1.590	8.119	1.00	0.00
ATOM	304	HA LBU	19	7.346	-4.052	7.410	1.00	0.00	ATOM	398	HB2 VAL	25	-1.924	-2.747	7.330	1.00	0.00	ATOM	492	CA AUA	31	-10.072	-0.944	9.479	1.00	0.00
ATOM	305	CA LBU	19	6.482	-3.841	9.316	1.00	0.00	ATOM	399	HB2 VAL	25	-0.466	-2.982	6.511	1.00	0.00	ATOM	493	CA AUA	31	-9.042	-1.590	8.119	1.00	0.00
ATOM	306	HA LBU	19	6.482	-3.841	9.316	1.00	0.00	ATOM	400	O VAL	25	-2.865	-3.533	9.907	1.00	0.00	ATOM	494	HA AUA	31					

REPLACEMENT SHEET

ATOM	537	CDL PHE	34	-6.937	0.754	2.542	1.00	0.00	ATOM	631	C LYS	39	-14.389	-9.563	-6.469	1.00	0.00	ATOM	725	CDL TYR	46	-10.632	-1.931	-7.398	1.00	0.00
ATOM	538	HDL PHE	34	-7.938	0.503	2.542	1.00	0.00	ATOM	632	O LYS	39	-13.886	-10.337	-7.279	1.00	0.00	ATOM	726	HDL TYR	46	-9.944	-2.650	-6.196	1.00	0.00
ATOM	539	CD2 PHE	34	-5.300	0.255	4.946	1.00	0.00	ATOM	633	N ARG	40	-15.448	-8.801	-6.079	1.00	0.00	ATOM	727	CD2 TYR	46	-12.432	-0.409	-8.995	1.00	0.00
ATOM	540	HDL PHE	34	-6.611	-0.459	5.373	1.00	0.00	ATOM	634	N ARG	40	-15.810	-8.206	-6.070	1.00	0.00	ATOM	728	HDL TYR	46	-13.194	-0.029	-8.724	1.00	0.00
ATOM	541	CEL PHE	34	-7.069	2.077	3.668	1.00	0.00	ATOM	635	CA ARG	40	-16.078	-8.074	-1.000	0.00	0.00	ATOM	729	CEL TYR	46	-10.487	-1.522	-6.466	1.00	0.00
ATOM	542	HEL PHE	34	-7.761	2.789	3.443	1.00	0.00	ATOM	636	HA ARG	40	-15.347	-8.504	-8.800	1.00	0.00	ATOM	730	HEL TYR	46	-9.725	-1.952	-6.585	1.00	0.00
ATOM	543	HDL PHE	34	-7.548	1.536	5.459	1.00	0.00	ATOM	637	CA ARG	40	-16.534	-10.246	-8.417	1.00	0.00	ATOM	731	CEL TYR	46	-12.303	0.007	-6.783	1.00	0.00
ATOM	544	HDL PHE	34	-7.548	1.536	5.459	1.00	0.00	ATOM	638	HA ARG	40	-17.312	-11.860	-9.014	1.00	0.00	ATOM	732	CEL TYR	46	-12.303	0.007	-6.783	1.00	0.00
ATOM	545	CD2 PHE	34	-6.252	2.450	4.917	1.00	0.00	ATOM	639	HA ARG	40	-17.312	-11.860	-9.014	1.00	0.00	ATOM	733	CEL TYR	46	-12.303	0.007	-6.783	1.00	0.00
ATOM	546	HZ PHE	34	-6.304	3.453	5.314	1.00	0.00	ATOM	640	CG ARG	40	-17.312	-11.860	-9.014	1.00	0.00	ATOM	734	CEL TYR	46	-12.303	0.007	-6.783	1.00	0.00
ATOM	547	C PHE	34	-7.400	-3.624	3.053	1.00	0.00	ATOM	641	HDL ARG	40	-18.190	-10.565	-7.235	1.00	0.00	ATOM	735	HH TYR	46	-11.139	-0.143	-4.776	1.00	0.00
ATOM	548	O PHE	34	-7.293	-4.349	2.065	1.00	0.00	ATOM	642	HO2 ARG	40	-16.612	-10.809	-6.363	1.00	0.00	ATOM	736	C TYR	46	-11.427	-0.671	-12.356	1.00	0.00
ATOM	549	N MET	35	-7.543	-4.100	4.285	1.00	0.00	ATOM	643	HO2 ARG	40	-17.305	-12.462	-8.038	1.00	0.00	ATOM	737	O TYR	46	-11.940	-0.764	-11.971	1.00	0.00
ATOM	550	N MET	35	-7.653	-3.446	5.035	1.00	0.00	ATOM	644	HO1 ARG	40	-16.418	-12.788	-8.038	1.00	0.00	ATOM	738	N TYR	47	-10.120	-0.506	-12.072	1.00	0.00
ATOM	551	N MET	35	-7.653	-3.446	5.035	1.00	0.00	ATOM	645	HO1 ARG	40	-16.418	-12.788	-8.038	1.00	0.00	ATOM	739	N TYR	47	-10.120	-0.506	-12.072	1.00	0.00
ATOM	552	HA MET	35	-6.624	-5.948	4.281	1.00	0.00	ATOM	646	HA ARG	40	-17.683	-13.735	-5.465	1.00	0.00	ATOM	740	HA TYR	47	-8.188	-0.506	-12.800	1.00	0.00
ATOM	553	CB MET	35	-7.868	-5.802	6.021	1.00	0.00	ATOM	647	CB ARG	40	-17.683	-13.735	-5.465	1.00	0.00	ATOM	741	HA TYR	47	-8.188	-0.506	-12.800	1.00	0.00
ATOM	554	HB1 MET	35	-8.472	-4.998	6.413	1.00	0.00	ATOM	648	CB ARG	40	-17.235	-14.537	-6.197	1.00	0.00	ATOM	742	CB TYR	47	-9.433	-1.567	-11.811	1.00	0.00
ATOM	555	HB2 MET	35	-8.415	-6.729	6.110	1.00	0.00	ATOM	649	HB1 ARG	40	-16.898	-15.225	-7.239	1.00	0.00	ATOM	743	HB1 TYR	47	-10.224	-1.285	-14.660	1.00	0.00
ATOM	556	CB MET	35	-6.609	-5.910	6.868	1.00	0.00	ATOM	650	HB1 ARG	40	-16.794	-14.759	-8.137	1.00	0.00	ATOM	744	HB2 TYR	47	-9.529	-1.748	-14.743	1.00	0.00
ATOM	557	HB1 MET	35	-7.744	-5.267	7.720	1.00	0.00	ATOM	651	HB2 ARG	40	-17.748	-16.212	-9.014	1.00	0.00	ATOM	745	CB TYR	47	-9.833	-2.862	-13.514	1.00	0.00
ATOM	558	HO2 MET	35	-6.744	-5.746	6.720	1.00	0.00	ATOM	652	HB2 ARG	40	-17.748	-16.212	-9.014	1.00	0.00	ATOM	746	CB TYR	47	-9.833	-2.862	-13.514	1.00	0.00
ATOM	559	SD MET	35	-6.296	-7.551	7.437	1.00	0.00	ATOM	653	HB2 ARG	40	-17.748	-16.212	-9.014	1.00	0.00	ATOM	747	CB TYR	47	-9.833	-2.862	-13.514	1.00	0.00
ATOM	560	CB MET	35	-6.296	-7.551	7.437	1.00	0.00	ATOM	654	HB2 ARG	40	-17.748	-16.212	-9.014	1.00	0.00	ATOM	748	CD2 TYR	47	-9.290	-2.574	-12.390	1.00	0.00
ATOM	561	HEL MET	35	-6.848	-8.011	6.470	1.00	0.00	ATOM	655	C ARG	40	-17.220	-16.147	-4.976	1.00	0.00	ATOM	749	HO2 TYR	47	-8.572	-2.574	-11.818	1.00	0.00
ATOM	562	HEL MET	35	-6.248	-8.726	7.013	1.00	0.00	ATOM	656	O ARG	40	-17.220	-16.147	-4.976	1.00	0.00	ATOM	750	CEL TYR	47	-11.124	-4.899	-13.496	1.00	0.00
ATOM	563	HEL MET	35	-5.157	-8.441	6.295	1.00	0.00	ATOM	657	N TYR	41	-18.081	-7.122	-9.074	1.00	0.00	ATOM	751	HEL TYR	47	-11.814	-5.550	-13.971	1.00	0.00
ATOM	564	O MET	35	-6.856	-6.134	6.574	1.00	0.00	ATOM	658	N TYR	41	-17.886	-8.510	-6.332	1.00	0.00	ATOM	752	CEL TYR	47	-9.659	-4.411	-11.674	1.00	0.00
ATOM	565	N MET	35	-6.856	-6.134	6.574	1.00	0.00	ATOM	659	CA TYR	41	-19.424	-8.751	-9.971	1.00	0.00	ATOM	753	HB2 TYR	47	-10.215	-4.619	-11.522	1.00	0.00
ATOM	566	N MET	35	-6.219	-7.049	2.751	1.00	0.00	ATOM	660	HA TYR	41	-19.424	-8.751	-9.971	1.00	0.00	ATOM	754	HB2 TYR	47	-10.215	-4.619	-11.522	1.00	0.00
ATOM	567	N MET	35	-7.255	-7.208	2.751	1.00	0.00	ATOM	661	CB TYR	41	-20.418	-7.806	-6.335	1.00	0.00	ATOM	755	OH TYR	47	-10.934	-6.431	-11.673	1.00	0.00
ATOM	568	HA MET	36	-9.128	-7.729	1.429	1.00	0.00	ATOM	662	CB TYR	41	-20.418	-7.806	-6.335	1.00	0.00	ATOM	756	HH TYR	47	-10.153	-6.958	-11.519	1.00	0.00
ATOM	569	HA MET	36	-8.598	-8.569	1.409	1.00	0.00	ATOM	663	CO1 TYR	41	-21.586	-7.003	-6.313	1.00	0.00	ATOM	757	C TYR	47	-9.318	0.917	-13.916	1.00	0.00
ATOM	570	CB MET	36	-10.371	-8.248	2.652	1.00	0.00	ATOM	664	HO1 TYR	41	-21.499	-6.331	-5.614	1.00	0.00	ATOM	758	O TYR	47	-8.350	1.686	-13.992	1.00	0.00
ATOM	571	HB1 MET	36	-11.151	-7.504	2.496	1.00	0.00	ATOM	665	CO2 TYR	41	-20.139	-8.255	-4.916	1.00	0.00	ATOM	759	N MET	48	-10.520	1.569	-14.452	1.00	0.00
ATOM	572	CB MET	36	-10.901	-9.553	1.996	1.00	0.00	ATOM	666	HA TYR	41	-19.383	-8.020	-4.925	1.00	0.00	ATOM	760	N MET	48	-11.227	0.559	-14.452	1.00	0.00
ATOM	573	CB MET	36	-10.901	-9.553	1.996	1.00	0.00	ATOM	667	HO2 TYR	41	-19.383	-8.020	-4.925	1.00	0.00	ATOM	761	N MET	48	-11.227	0.559	-14.452	1.00	0.00
ATOM	574	HO1 MET	36	-11.473	-9.318	1.748	1.00	0.00	ATOM	668	HO2 TYR	41	-19.383	-8.020	-4.925	1.00	0.00	ATOM	762	CB MET	48	-10.103	2.441	-15.037	1.00	0.00
ATOM	575	HO2 MET	36	-11.473	-9.318	1.748	1.00	0.00	ATOM	669	C TYR	41	-18.940	-5.797	-6.155	1.00	0.00	ATOM	763	CB MET	48	-12.309	2.478	-15.648	1.00	0.00
ATOM	576	CD MET	36	-11.806	-10.289	3.972	1.00	0.00	ATOM	670	O TYR	41	-19.562	-4.751	-6.318	1.00	0.00	ATOM	764	HB1 MET	48	-12.854	2.559	-14.784	1.00	0.00
ATOM	577	CD MET	36	-11.522	-11.469	3.666	1.00	0.00	ATOM	671	N TYR	42	-17.969	-5.915	-5.284	1.00	0.00	ATOM	765	HB2 MET	48	-12.343	3.368	-16.244	1.00	0.00
ATOM	578	CD MET	36	-12.794	-9.685	4.440	1.00	0.00	ATOM	672	N MET	42	-17.911	-6.776	-5.166	1.00	0.00	ATOM	766	CB MET	48	-12.621	1.276	-16.482	1.00	0.00
ATOM	579	CD MET	36	-10.414	-9.939	4.970	1.00	0.00	ATOM	673	HO1 MET	42	-17.313	-8.776	-4.808	1.00	0.00	ATOM	767	HO1 MET	48	-12.151	1.337	-16.444	1.00	0.00
ATOM	580	O MET	36	-10.414	-9.939	4.970	1.00	0.00	ATOM	674	HO1 MET	42	-16.949	-9.524	-2.424	1.00	0.00	ATOM	768	HO1 MET	48	-12.151	1.337	-16.444	1.00	0.00
ATOM	581	N MET	37	-8.913	-6.939	-0.466	1.00	0.00	ATOM	675	CB MET	42	-16.478	-8.238	-3.432	1.00	0.00	ATOM	769	CB MET	48	-14.856	1.919	-15.994	1.00	0.00
ATOM	582	CA MET	37	-9.200	-6.075	-1.444	1.00	0.00	ATOM	676	HB1 MET	42	-15.513	-5.015	-3.864	1.00	0.00	ATOM	770	CEL MET	48	-14.856	1.919	-15.994	1.00	0.00
ATOM	583	CA MET	37	-8.087	-6.425	-1.386	1.00	0.00	ATOM	677	HB2 MET	42	-16.561	-4.556	-3.279	1.00	0.00	ATOM	771	CEL MET	48	-14.856	1.919	-15.994	1.00	0.00
ATOM	584	CB MET	37	-7.650	-5.315	-3.021	1.00	0.00	ATOM	678	CB MET	42	-17.313	-5.242	-2.424	1.00	0.00	ATOM	772	O MET	48	-10.445	3.639	-14.306	1.00	0.00
ATOM	585	HB1 MET	37	-7.087	-7.224	-1.976	1.00	0.00	ATOM	679	HO1 MET	42	-16.949	-9.524	-2.424	1.00	0.00	ATOM	773	N MET	48	-10.136	4.716	-14.815	1.00	0.00
ATOM	586	HO1 MET	37	-6.627	-7.957	-2.522	1.00	0.00	ATOM	680	HA MET	42	-15.765	-3.908	-7.117	1.00	0.00	ATOM	774	N MET	48	-10.520	3.459	-14.392	1.00	0.00
ATOM	587	CB MET	37	-6.338	-6.570	-1.455	1.00	0.00	ATOM	681	CA MET	42	-14.293	-3.913	-1.760	1.00	0.00	ATOM	775	CA MET	48	-10.261	4.545	-12.055	1.00	0.00
ATOM	588	HO1 MET	37	-7.857	-7.904	-0.784	1.00	0.00	ATOM	682	CO2 MET	42	-15.169	-5.300	-0.297	1.00	0.00	ATOM	776	CA MET	48	-9.905	5.392</			

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ATOM	819	CD	ARG	51	-2.313	4.849	-10.312	1.00	0.00	ATOM	913	CG	LVS	57	-6.542	-10.395	2.550	1.00	0.00	ATOM	1007	C	ARG	62	4.780	-11.542	-0.664	1.00	0.00
ATOM	820	HD	ARG	51	-2.996	5.010	-10.312	1.00	0.00	ATOM	914	HOL	LVS	57	-6.160	-10.116	1.629	1.00	0.00	ATOM	1008	C	ARG	62	5.781	-12.266	-0.576	1.00	0.00
ATOM	821	HD	ARG	51	-1.566	5.493	-11.246	1.00	0.00	ATOM	915	CD	LVS	57	-6.622	-10.954	2.517	1.00	0.00	ATOM	1009	N	LEU	63	4.700	-10.365	-0.592	1.00	0.00
ATOM	822	NE	ARG	51	-0.275	5.184	-12.385	1.00	0.00	ATOM	916	CD	LVS	57	-6.649	-11.720	3.735	1.00	0.00	ATOM	1010	N	LEU	63	3.882	-9.685	-0.149	1.00	0.00
ATOM	823	NE	ARG	51	-4.217	5.390	-12.212	1.00	0.00	ATOM	917	HOL	LVS	57	-5.944	-11.047	3.979	1.00	0.00	ATOM	1011	CA	LEU	63	5.792	-9.883	0.768	1.00	0.00
ATOM	824	CE	ARG	51	-2.832	4.555	-13.698	1.00	0.00	ATOM	918	HD2	LVS	57	-5.090	-12.157	3.498	1.00	0.00	ATOM	1012	HA	LEU	63	6.343	-8.546	1.430	1.00	0.00
ATOM	825	CE	ARG	51	-1.212	4.959	-13.904	1.00	0.00	ATOM	919	CE	LVS	57	-7.017	-12.831	4.112	1.00	0.00	ATOM	1013	NE	LEU	63	5.384	-8.546	1.430	1.00	0.00
ATOM	826	NE	ARG	51	-0.316	4.959	-13.904	1.00	0.00	ATOM	920	CE	LVS	57	-6.622	-12.831	4.112	1.00	0.00	ATOM	1014	NE	LEU	63	5.384	-8.546	1.430	1.00	0.00
ATOM	827	HLL1	ARG	51	-1.212	4.959	-13.904	1.00	0.00	ATOM	921	NE	LVS	57	-6.622	-12.831	4.112	1.00	0.00	ATOM	1015	HB2	LVS	63	4.460	-8.726	1.982	1.00	0.00
ATOM	828	HB2	ARG	51	-0.459	5.539	-14.666	1.00	0.00	ATOM	922	NE	LVS	57	-7.223	-12.915	5.585	1.00	0.00	ATOM	1016	CE	LEU	63	6.413	-7.984	2.436	1.00	0.00
ATOM	829	HB2	ARG	51	-0.323	5.569	-15.568	1.00	0.00	ATOM	923	HB2	LVS	57	-6.363	-12.609	5.860	1.00	0.00	ATOM	1017	HG	LEU	63	7.441	-8.747	2.663	1.00	0.00
ATOM	830	C	ARG	51	-4.617	5.746	-14.430	1.00	0.00	ATOM	924	HB2	LVS	57	-7.441	-12.302	5.871	1.00	0.00	ATOM	1018	CD	LEU	63	7.148	-6.804	1.825	1.00	0.00
ATOM	831	C	ARG	51	-1.864	6.354	-11.056	1.00	0.00	ATOM	925	HB2	LVS	57	-8.013	-12.302	5.871	1.00	0.00	ATOM	1019	HD1	LEU	63	6.457	-5.994	1.672	1.00	0.00
ATOM	832	C	ARG	51	-4.178	6.354	-11.056	1.00	0.00	ATOM	926	C	LVS	57	-3.895	-10.144	1.617	1.00	0.00	ATOM	1020	HB2	LEU	63	7.579	-7.907	0.877	1.00	0.00
ATOM	833	HN	SEK	52	-3.310	4.403	-9.751	1.00	0.00	ATOM	927	N	THR	58	-4.014	-8.742	0.370	1.00	0.00	ATOM	1021	CD2	LEU	63	5.741	-7.580	1.362	1.00	0.00
ATOM	834	HN	SEK	52	-3.307	-1.652	-9.751	1.00	0.00	ATOM	928	N	THR	58	-4.014	-8.742	0.370	1.00	0.00	ATOM	1022	CD2	LEU	63	5.741	-7.580	1.362	1.00	0.00
ATOM	835	HA	SEK	52	-3.766	-2.101	-10.603	1.00	0.00	ATOM	929	HN	THR	58	-4.551	-8.913	0.201	1.00	0.00	ATOM	1023	HB2	LEU	63	5.708	-6.789	1.726	1.00	0.00
ATOM	836	HA	SEK	52	-1.690	-1.980	-9.715	1.00	0.00	ATOM	930	CA	THR	58	-3.409	-11.465	-0.755	1.00	0.00	ATOM	1024	HB2	LEU	63	5.708	-6.789	1.726	1.00	0.00
ATOM	837	CB	SEK	52	-1.820	-1.980	-9.715	1.00	0.00	ATOM	931	HA	THR	58	-3.409	-11.465	-0.757	1.00	0.00	ATOM	1025	HB2	LEU	63	6.252	-8.049	1.565	1.00	0.00
ATOM	838	HB1	SEK	52	-1.497	-3.005	-10.027	1.00	0.00	ATOM	932	CA	THR	58	-4.223	-10.177	-2.021	1.00	0.00	ATOM	1026	C	LEU	63	6.204	-10.880	1.455	1.00	0.00
ATOM	839	HB1	SEK	52	-1.497	-3.005	-10.027	1.00	0.00	ATOM	933	HB	THR	58	-4.448	-9.126	-2.112	1.00	0.00	ATOM	1027	N	LEU	63	7.391	-11.134	2.019	1.00	0.00
ATOM	840	HB1	SEK	52	-1.497	-3.005	-10.027	1.00	0.00	ATOM	934	HB	THR	58	-4.448	-9.126	-2.112	1.00	0.00	ATOM	1028	HB2	LEU	63	7.391	-11.134	2.019	1.00	0.00
ATOM	841	HB	SEK	52	-0.287	-1.608	-10.877	1.00	0.00	ATOM	935	HOL	THR	58	-5.974	-10.557	-1.238	1.00	0.00	ATOM	1029	HN	LVS	64	4.287	-11.215	2.365	1.00	0.00
ATOM	842	C	SEK	52	-3.953	-2.118	-8.488	1.00	0.00	ATOM	936	CO2	THR	58	-3.515	-10.598	-3.304	1.00	0.00	ATOM	1030	CA	LVS	64	5.469	-12.487	3.492	1.00	0.00
ATOM	843	O	SEK	52	-3.353	-2.308	-7.452	1.00	0.00	ATOM	937	HB2	THR	58	-4.236	-11.003	-3.999	1.00	0.00	ATOM	1031	HA	LVS	64	5.469	-12.487	3.492	1.00	0.00
ATOM	844	N	PRO	53	-5.310	-2.379	-8.565	1.00	0.00	ATOM	938	HB2	THR	58	-2.775	-11.349	-3.073	1.00	0.00	ATOM	1032	CB	LVS	64	4.155	-13.122	3.933	1.00	0.00
ATOM	845	CA	PRO	53	-6.087	-2.882	-7.435	1.00	0.00	ATOM	939	HB2	THR	58	-3.031	-9.740	-3.747	1.00	0.00	ATOM	1033	HB1	LVS	64	3.506	-13.260	3.098	1.00	0.00
ATOM	846	CA	PRO	53	-6.390	-2.882	-7.435	1.00	0.00	ATOM	940	C	THR	58	-1.956	-9.661	-0.952	1.00	0.00	ATOM	1034	HB2	LVS	64	4.365	-14.094	4.372	1.00	0.00
ATOM	847	CA	PRO	53	-6.390	-2.882	-7.435	1.00	0.00	ATOM	941	O	THR	58	-1.956	-9.661	-0.952	1.00	0.00	ATOM	1035	HB2	LVS	64	4.365	-14.094	4.372	1.00	0.00
ATOM	848	HB1	PRO	53	-8.160	-3.415	-7.435	1.00	0.00	ATOM	942	O	THR	58	-1.956	-9.661	-0.952	1.00	0.00	ATOM	1036	HB2	LVS	64	4.365	-14.094	4.372	1.00	0.00
ATOM	849	HB2	PRO	53	-7.122	-4.519	-8.355	1.00	0.00	ATOM	943	HN	THR	58	-2.426	-8.992	-0.413	1.00	0.00	ATOM	1037	HB2	LVS	64	4.365	-14.094	4.372	1.00	0.00
ATOM	850	CG	PRO	53	-7.512	-2.661	-9.337	1.00	0.00	ATOM	944	CA	THR	58	-0.355	-8.132	-0.851	1.00	0.00	ATOM	1038	CD	LVS	64	3.859	-12.663	4.907	1.00	0.00
ATOM	851	HB1	PRO	53	-7.963	-1.263	-10.110	1.00	0.00	ATOM	945	HA	THR	58	-0.400	-8.431	-1.819	1.00	0.00	ATOM	1039	HD1	LVS	64	3.007	-13.038	6.957	1.00	0.00
ATOM	852	HB2	PRO	53	-8.139	-1.812	-9.109	1.00	0.00	ATOM	946	CB	THR	58	-0.556	-6.605	-1.318	1.00	0.00	ATOM	1040	HD2	LVS	64	4.618	-13.428	6.351	1.00	0.00
ATOM	853	CD	PRO	53	-8.143	-2.157	-9.770	1.00	0.00	ATOM	947	HB2	THR	58	-1.260	-6.202	-1.112	1.00	0.00	ATOM	1041	CE	LVS	64	4.428	-11.459	7.141	1.00	0.00
ATOM	854	CD	PRO	53	-8.143	-2.157	-9.770	1.00	0.00	ATOM	948	HB2	THR	58	-1.260	-6.202	-1.112	1.00	0.00	ATOM	1042	CE	LVS	64	4.428	-11.459	7.141	1.00	0.00
ATOM	855	CG	PRO	53	-8.143	-2.157	-9.770	1.00	0.00	ATOM	949	HB2	THR	58	-1.260	-6.202	-1.112	1.00	0.00	ATOM	1043	CE	LVS	64	4.428	-11.459	7.141	1.00	0.00
ATOM	856	C	PRO	53	-8.143	-2.157	-9.770	1.00	0.00	ATOM	950	HOL	THR	58	-1.260	-6.202	-1.112	1.00	0.00	ATOM	1044	NE	LVS	64	4.428	-11.459	7.141	1.00	0.00
ATOM	857	O	PRO	53	-8.143	-2.157	-9.770	1.00	0.00	ATOM	951	HOL	THR	58	-1.260	-6.202	-1.112	1.00	0.00	ATOM	1045	NE	LVS	64	4.428	-11.459	7.141	1.00	0.00
ATOM	858	N	MET	54	-4.609	-3.512	-5.619	1.00	0.00	ATOM	952	CE	THR	58	-0.969	-6.397	0.643	1.00	0.00	ATOM	1046	HB2	LVS	64	6.295	-13.025	8.936	1.00	0.00
ATOM	859	N	MET	54	-4.591	-3.512	-5.619	1.00	0.00	ATOM	953	CE	THR	58	-0.969	-6.397	0.643	1.00	0.00	ATOM	1047	HB2	LVS	64	6.295	-13.025	8.936	1.00	0.00
ATOM	860	CA	MET	54	-8.950	-4.428	-4.777	1.00	0.00	ATOM	954	HB2	THR	58	-1.278	-4.324	-1.443	1.00	0.00	ATOM	1048	C	LVS	64	6.407	-13.052	3.973	1.00	0.00
ATOM	861	CA	MET	54	-8.950	-4.428	-4.777	1.00	0.00	ATOM	955	HB2	THR	58	-1.278	-4.324	-1.443	1.00	0.00	ATOM	1049	C	LVS	64	6.407	-13.052	3.973	1.00	0.00
ATOM	862	CB	MET	54	-2.398	-4.508	-4.253	1.00	0.00	ATOM	956	HB2	THR	58	-1.278	-4.324	-1.443	1.00	0.00	ATOM	1050	C	LVS	64	6.407	-13.052	3.973	1.00	0.00
ATOM	863	HB1	MET	54	-2.390	-4.624	-6.327	1.00	0.00	ATOM	957	C	MET	59	0.582	-6.669	0.228	1.00	0.00	ATOM	1051	HN	ASN	65	5.569	-13.450	1.843	1.00	0.00
ATOM	864	HB2	MET	54	-1.897	-3.587	-4.995	1.00	0.00	ATOM	958	O	MET	59	1.701	-9.092	-0.061	1.00	0.00	ATOM	1052	CA	ASN	65	7.103	-14.872	1.023	1.00	0.00
ATOM	865	CG	MET	54	-1.615	-5.664	-4.644	1.00	0.00	ATOM	959	N	SEK	60	0.126	-8.821	1.476	1.00	0.00	ATOM	1053	HA	ASN	65	6.532	-15.410	1.795	1.00	0.00
ATOM	866	HOL	MET	54	-1.472	-5.664	-4.644	1.00	0.00	ATOM	960	N	SEK	60	-0.772	-8.270	1.644	1.00	0.00	ATOM	1054	C	ASN	65	6.254	-15.855	0.242	1.00	0.00
ATOM	867	HOL	MET	54	-1.472	-5.664	-4.644	1.00	0.00	ATOM	961	CA	SEK	60	0.925	-9.088	2.601	1.00	0.00	ATOM	1055	HB1	ASN	65	6.762	-16.062	-0.712	1.00	0.00

REPLACEMENT SHEET

ATOM	1101	HE2	THR	67	6.089	-16.237	-6.940	1.00	0.00	ATOM	1195	NE2	LVS	72	6.889	3.305	-12.403	1.00	0.00	ATOM	1308	HD1	LEU	78	6.055	-1.174	1.350	1.00	0.00
ATOM	1102	CE2	THR	67	4.798	-11.237	-7.044	1.00	0.00	ATOM	1196	HE1	LVS	72	7.488	3.045	-12.775	1.00	0.00	ATOM	1309	HD2	LEU	78	1.255	-1.975	-1.350	1.00	0.00
ATOM	1103	HE2	THR	67	4.281	-12.449	-7.711	1.00	0.00	ATOM	1197	HE2	LVS	72	5.902	3.266	-12.386	1.00	0.00	ATOM	1320	CD2	LEU	78	1.327	-1.855	0.521	1.00	0.00
ATOM	1104	CE2	THR	67	5.153	-14.387	-7.466	1.00	0.00	ATOM	1198	HE3	LVS	72	6.961	2.219	-13.037	1.00	0.00	ATOM	1321	CD2	LEU	78	1.094	-1.855	0.521	1.00	0.00
ATOM	1105	CH	THR	67	4.850	-14.793	-8.745	1.00	0.00	ATOM	1199	C	LVS	72	5.915	-1.152	-7.680	1.00	0.00	ATOM	1322	HD1	LEU	78	1.126	-1.855	0.521	1.00	0.00
ATOM	1106	C	THR	67	4.026	-15.286	-8.737	1.00	0.00	ATOM	1200	O	LVS	72	4.723	-2.445	-7.305	1.00	0.00	ATOM	1323	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1107	CH	THR	67	4.850	-15.286	-8.737	1.00	0.00	ATOM	1201	N	LEU	78	6.357	-2.445	-7.305	1.00	0.00	ATOM	1324	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1108	C	THR	67	6.900	-10.667	-3.063	1.00	0.00	ATOM	1202	N	LEU	78	5.446	-2.445	-7.305	1.00	0.00	ATOM	1325	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1109	O	THR	67	6.859	-9.937	-2.995	1.00	0.00	ATOM	1203	CA	LEU	78	4.802	-3.527	-7.966	1.00	0.00	ATOM	1326	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1110	N	THR	68	6.909	-10.187	-1.978	1.00	0.00	ATOM	1204	CA	LEU	78	4.802	-3.527	-7.966	1.00	0.00	ATOM	1327	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1111	CA	THR	68	6.515	-8.568	-3.280	1.00	0.00	ATOM	1205	CB	LEU	78	6.231	-4.764	-6.964	1.00	0.00	ATOM	1328	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1112	HA	THR	68	6.570	-8.478	-4.335	1.00	0.00	ATOM	1206	CB	LEU	78	7.132	-4.656	-7.512	1.00	0.00	ATOM	1329	HD2	LEU	78	0.068	2.009	-1.002	1.00	0.00
ATOM	1113	HA	THR	68	5.089	-8.253	-2.821	1.00	0.00	ATOM	1207	HE2	LEU	73	6.450	-4.656	-7.512	1.00	0.00	ATOM	1330	HA	GLN	79	0.410	4.097	-2.184	1.00	0.00
ATOM	1114	HA	THR	68	5.089	-8.253	-2.821	1.00	0.00	ATOM	1208	CB	LEU	73	5.308	-4.656	-7.512	1.00	0.00	ATOM	1331	HA	GLN	79	1.478	4.651	-3.154	1.00	0.00
ATOM	1115	HB2	THR	68	5.089	-8.253	-2.821	1.00	0.00	ATOM	1209	CB	LEU	73	6.313	-7.263	-7.466	1.00	0.00	ATOM	1332	HA	GLN	79	1.478	4.651	-3.154	1.00	0.00
ATOM	1116	CB	THR	68	4.089	-8.103	-3.946	1.00	0.00	ATOM	1210	CD1	LEU	73	6.313	-7.263	-7.466	1.00	0.00	ATOM	1333	HA	GLN	79	1.478	4.651	-3.154	1.00	0.00
ATOM	1117	CD1	THR	68	4.278	-8.103	-3.946	1.00	0.00	ATOM	1211	HD1	LEU	73	6.313	-7.263	-7.466	1.00	0.00	ATOM	1334	HA	GLN	79	1.478	4.651	-3.154	1.00	0.00
ATOM	1118	HD1	THR	68	5.157	-9.336	-5.327	1.00	0.00	ATOM	1212	HD2	LEU	73	7.328	-7.136	-7.466	1.00	0.00	ATOM	1335	HA	GLN	79	1.478	4.651	-3.154	1.00	0.00
ATOM	1119	CD2	THR	68	2.965	-6.844	-2.823	1.00	0.00	ATOM	1213	HD3	LEU	73	5.868	-8.115	-7.631	1.00	0.00	ATOM	1336	HA	GLN	79	2.194	6.307	-4.202	1.00	0.00
ATOM	1120	HD2	THR	68	2.965	-6.844	-2.823	1.00	0.00	ATOM	1214	CD2	LEU	73	5.247	-5.915	-8.961	1.00	0.00	ATOM	1337	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1121	HD2	THR	68	2.965	-6.844	-2.823	1.00	0.00	ATOM	1215	HD2	LEU	73	4.982	-8.889	-9.345	1.00	0.00	ATOM	1338	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1122	HE1	THR	68	3.523	-9.052	-6.136	1.00	0.00	ATOM	1216	HD2	LEU	73	4.982	-8.889	-9.345	1.00	0.00	ATOM	1339	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1123	CE2	THR	68	2.022	-7.185	-4.789	1.00	0.00	ATOM	1217	HD2	LEU	73	4.567	-3.247	-5.861	1.00	0.00	ATOM	1340	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1124	HE2	THR	68	1.141	-6.581	-6.633	1.00	0.00	ATOM	1218	C	LEU	73	3.375	-3.053	-5.958	1.00	0.00	ATOM	1341	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1125	CE2	THR	68	2.233	-7.811	-5.998	1.00	0.00	ATOM	1219	O	LEU	73	5.218	-3.053	-5.958	1.00	0.00	ATOM	1342	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1126	CH	THR	68	1.315	-7.665	-7.012	1.00	0.00	ATOM	1220	N	THR	74	6.184	-3.476	-4.678	1.00	0.00	ATOM	1343	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1127	HN	THR	68	0.444	-7.518	-6.637	1.00	0.00	ATOM	1221	N	THR	74	4.933	-3.476	-4.678	1.00	0.00	ATOM	1344	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1128	C	THR	68	7.484	-7.510	-2.656	1.00	0.00	ATOM	1222	CA	THR	74	2.589	-3.476	-4.678	1.00	0.00	ATOM	1345	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1129	O	THR	68	7.484	-7.510	-2.656	1.00	0.00	ATOM	1223	CA	THR	74	2.589	-3.476	-4.678	1.00	0.00	ATOM	1346	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1130	N	VAL	69	8.744	-7.567	-2.529	1.00	0.00	ATOM	1224	CA	THR	74	2.589	-3.476	-4.678	1.00	0.00	ATOM	1347	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1131	HN	VAL	69	9.000	-8.862	-2.835	1.00	0.00	ATOM	1225	HB1	THR	74	5.587	-4.799	-2.614	1.00	0.00	ATOM	1348	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1132	CA	VAL	69	9.761	-7.086	-1.962	1.00	0.00	ATOM	1226	HB2	THR	74	4.504	-3.929	-1.033	1.00	0.00	ATOM	1349	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1133	CA	VAL	69	9.761	-7.086	-1.962	1.00	0.00	ATOM	1227	CD1	THR	74	4.504	-3.929	-1.033	1.00	0.00	ATOM	1350	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1134	CB	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1228	CD1	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1351	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1135	CB	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1229	HD1	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1352	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1136	CB	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1230	CD2	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1353	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1137	HD1	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1231	CD2	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1354	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1138	HD1	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1232	CD2	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1355	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1139	HD1	VAL	69	10.907	-6.461	-1.221	1.00	0.00	ATOM	1233	CD2	THR	74	4.223	-6.043	-1.166	1.00	0.00	ATOM	1356	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1140	CD2	VAL	69	12.197	-7.059	-0.990	1.00	0.00	ATOM	1234	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1357	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1141	HD2	VAL	69	12.197	-7.059	-0.990	1.00	0.00	ATOM	1235	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1358	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1142	HD2	VAL	69	12.197	-7.059	-0.990	1.00	0.00	ATOM	1236	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1359	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1143	HD2	VAL	69	12.197	-7.059	-0.990	1.00	0.00	ATOM	1237	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1360	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1144	C	VAL	69	10.608	-6.872	-0.997	1.00	0.00	ATOM	1238	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1361	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1145	C	VAL	69	10.608	-6.872	-0.997	1.00	0.00	ATOM	1239	CE2	THR	74	3.518	-2.929	1.489	1.00	0.00	ATOM	1362	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1146	N	VAL	69	10.352	-6.139	-0.943	1.00	0.00	ATOM	1240	O	THR	74	5.392	-1.236	-2.879	1.00	0.00	ATOM	1363	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1147	N	VAL	69	9.507	-5.372	-3.634	1.00	0.00	ATOM	1241	N	THR	75	6.262	-1.309	-2.788	1.00	0.00	ATOM	1364	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1148	N	VAL	70	9.507	-5.372	-3.634	1.00	0.00	ATOM	1242	N	THR	75	5.324	-1.029	-2.788	1.00	0.00	ATOM	1365	HA	GLN	79	2.722	7.551	-3.307	1.00	0.00
ATOM	1149	N	VAL	70	9.507	-5.372	-3.634	1.00	0.00	ATOM	1243	N	THR	75	5.324	-1.029	-2.7												

REPLACEMENT SHEET

ATOM	1383	C62 THR	83	-4.464	7.286	-5.619	1.00	0.00	ATOM	1477	H81 ASN	89	-14.820	8.581	-0.042	1.00	0.00	ATOM	1571	O	TYR	95	-10.170	6.352	2.951	1.00	0.00		
ATOM	1384	H82 THR	83	-1.188	7.176	-1.173	1.00	0.00	ATOM	1478	H82 ASN	89	-13.706	7.744	-1.173	1.00	0.00	ATOM	1572	N	TYR	96	-11.742	7.934	3.443	1.00	0.00		
ATOM	1385	H822 THR	83	-4.884	6.255	-6.383	1.00	0.00	ATOM	1479	H82 ASN	89	-12.001	7.798	-1.173	1.00	0.00	ATOM	1573	HN	TYR	96	-11.742	7.934	3.443	1.00	0.00		
ATOM	1386	H823 THR	83	-5.228	6.656	-6.049	1.00	0.00	ATOM	1480	CO1 ASN	89	-12.001	7.798	-1.173	1.00	0.00	ATOM	1574	CA	TYR	96	-10.862	9.045	3.073	1.00	0.00		
ATOM	1387	C	THR	83	-5.278	6.017	-3.711	1.00	0.00	ATOM	1481	H81 ASN	89	-13.444	6.136	-0.609	1.00	0.00	ATOM	1575	HA	TYR	96	-11.079	8.795	2.268	1.00	0.00	
ATOM	1388	O	THR	83	-7.221	6.707	-4.033	1.00	0.00	ATOM	1482	H821 ASN	89	-12.769	5.467	-0.377	1.00	0.00	ATOM	1576	CB	TYR	96	-11.579	10.321	2.712	1.00	0.00	
ATOM	1389	N	ASN	84	-5.333	4.650	-3.756	1.00	0.00	ATOM	1483	H822 ASN	89	-14.368	5.048	-0.912	1.00	0.00	ATOM	1577	H81 TYR	96	-12.001	10.745	3.611	1.00	0.00		
ATOM	1390	HN	ASN	84	-5.350	4.170	-3.476	1.00	0.00	ATOM	1484	C	ASN	89	-15.944	5.048	-0.912	1.00	0.00	ATOM	1578	H82 TYR	96	-10.717	11.377	4.060	1.00	0.00	
ATOM	1391	HN	ASN	84	-5.350	4.170	-3.476	1.00	0.00	ATOM	1485	HN	ASN	89	-15.944	5.048	-0.912	1.00	0.00	ATOM	1579	CO1 TYR	96	-10.717	11.377	4.060	1.00	0.00	
ATOM	1392	CA	ASN	84	-7.822	4.381	-4.201	1.00	0.00	ATOM	1486	N	ASN	84	-17.141	7.728	-3.446	1.00	0.00	ATOM	1580	CO2 TYR	96	-10.717	11.377	4.060	1.00	0.00	
ATOM	1393	CB	ASN	84	-7.250	2.481	-4.321	1.00	0.00	ATOM	1487	HN	ALA	90	-17.141	7.728	-3.446	1.00	0.00	ATOM	1581	H81 TYR	96	-10.524	10.326	0.211	1.00	0.00	
ATOM	1394	H81 ASN	84	-6.457	2.342	-5.039	1.00	0.00	ATOM	1488	CA	ALA	90	-17.485	6.555	-3.789	1.00	0.00	ATOM	1582	CD2 TYR	96	-10.364	12.553	3.758	1.00	0.00		
ATOM	1395	H82 ASN	84	-6.939	2.107	-3.362	1.00	0.00	ATOM	1489	HA	ALA	90	-17.485	6.555	-3.789	1.00	0.00	ATOM	1583	H82 TYR	96	-10.714	12.672	3.758	1.00	0.00		
ATOM	1396	CO1 ASN	84	-6.464	1.707	-4.778	1.00	0.00	ATOM	1490	CB	ALA	90	-19.185	8.946	-4.336	1.00	0.00	ATOM	1584	CE1 TYR	96	-9.471	12.183	0.159	1.00	0.00		
ATOM	1397	CO1 ASN	84	-6.459	2.282	-5.218	1.00	0.00	ATOM	1491	H81 ALA	90	-19.230	7.944	-3.956	1.00	0.00	ATOM	1585	H81 TYR	96	-9.120	12.019	-0.852	1.00	0.00			
ATOM	1398	H81 ASN	84	-7.564	0.852	-4.312	1.00	0.00	ATOM	1492	H82 ALA	90	-19.128	8.950	-3.944	1.00	0.00	ATOM	1586	CE2 TYR	96	-9.376	13.501	2.152	1.00	0.00			
ATOM	1399	H821 ASN	84	-7.564	0.852	-4.312	1.00	0.00	ATOM	1493	HN	ALA	90	-18.356	10.662	-2.705	1.00	0.00	ATOM	1587	HN	TYR	96	-9.376	13.501	2.152	1.00	0.00	
ATOM	1400	H822 ASN	84	-6.158	-0.147	-4.960	1.00	0.00	ATOM	1494	C	ALA	90	-18.356	10.662	-2.705	1.00	0.00	ATOM	1588	CE2 TYR	96	-9.376	13.501	2.152	1.00	0.00		
ATOM	1401	C	ASN	84	-6.707	4.212	-3.201	1.00	0.00	ATOM	1495	O	ALA	90	-18.356	10.662	-2.705	1.00	0.00	ATOM	1589	CO1 TYR	96	-9.376	13.501	2.152	1.00	0.00	
ATOM	1402	O	ASN	84	-6.956	4.879	-3.514	1.00	0.00	ATOM	1496	N	PRO	91	-18.657	10.179	-1.487	1.00	0.00	ATOM	1590	HN	TYR	96	-8.832	14.690	-0.455	1.00	0.00
ATOM	1403	N	CYS	85	-6.520	3.657	-2.003	1.00	0.00	ATOM	1497	CA	PRO	91	-19.087	11.013	-0.781	1.00	0.00	ATOM	1591	C	TYR	96	-10.009	9.267	4.346	1.00	0.00
ATOM	1404	HN	CYS	85	-7.708	3.142	-1.812	1.00	0.00	ATOM	1498	HA	PRO	91	-19.505	11.951	-0.717	1.00	0.00	ATOM	1592	O	TYR	96	-8.884	9.764	4.303	1.00	0.00
ATOM	1405	HN	CYS	85	-7.708	3.142	-1.812	1.00	0.00	ATOM	1499	HN	PRO	91	-20.271	10.349	-0.789	1.00	0.00	ATOM	1593	HN	LVS	97	-10.552	8.808	5.478	1.00	0.00
ATOM	1406	HA	CYS	85	-10.414	3.205	-0.354	1.00	0.00	ATOM	1500	HN1 PRO	91	-21.115	10.323	-0.263	1.00	0.00	ATOM	1594	HN	LVS	97	-9.937	9.050	6.771	1.00	0.00	
ATOM	1407	CB	CYS	85	-9.028	3.205	-0.354	1.00	0.00	ATOM	1501	H82 PRO	91	-21.115	10.323	-0.263	1.00	0.00	ATOM	1595	CA	LVS	97	-9.937	9.050	6.771	1.00	0.00	
ATOM	1408	H81 CYS	85	-9.789	3.329	1.109	1.00	0.00	ATOM	1502	CO2 PRO	91	-19.704	8.730	-0.022	1.00	0.00	ATOM	1596	HA	LVS	97	-9.515	10.043	6.806	1.00	0.00		
ATOM	1409	H82 CYS	85	-8.132	3.724	0.665	1.00	0.00	ATOM	1503	HN1 PRO	91	-20.537	8.104	-0.288	1.00	0.00	ATOM	1597	CB	LVS	97	-11.360	7.901	7.898	1.00	0.00		
ATOM	1410	SG	CYS	85	-6.535	1.443	0.357	1.00	0.00	ATOM	1504	HO2 PRO	91	-19.249	8.358	-1.094	1.00	0.00	ATOM	1598	H81 LVS	97	-10.457	9.033	6.845	1.00	0.00		
ATOM	1411	HG	CYS	85	-8.362	0.955	0.652	1.00	0.00	ATOM	1505	CO2 PRO	91	-18.679	8.764	-1.094	1.00	0.00	ATOM	1599	H82 LVS	97	-12.400	9.903	7.152	1.00	0.00		
ATOM	1412	HN	CYS	85	-10.964	5.413	-0.398	1.00	0.00	ATOM	1506	HN2 PRO	91	-17.943	8.153	-0.914	1.00	0.00	ATOM	1600	H81 LVS	97	-12.400	9.903	7.152	1.00	0.00		
ATOM	1413	O	CYS	85	-10.964	5.413	-0.398	1.00	0.00	ATOM	1507	HN1 PRO	91	-17.943	8.153	-0.914	1.00	0.00	ATOM	1601	H82 LVS	97	-12.400	9.903	7.152	1.00	0.00		
ATOM	1414	N	LVS	86	-8.898	6.150	-0.993	1.00	0.00	ATOM	1508	C	PRO	91	-17.976	11.268	0.633	1.00	0.00	ATOM	1602	HO2 LVS	97	-11.711	10.849	7.473	1.00	0.00	
ATOM	1415	HN	LVS	86	-8.021	5.820	-1.381	1.00	0.00	ATOM	1509	O	PRO	91	-18.242	11.671	1.765	1.00	0.00	ATOM	1603	CO2 LVS	97	-13.765	10.107	9.176	1.00	0.00	
ATOM	1416	CA	LVS	86	-9.102	7.586	-0.940	1.00	0.00	ATOM	1510	N	GLU	92	-16.734	11.671	1.765	1.00	0.00	ATOM	1604	HO1 LVS	97	-13.665	10.674	9.042	1.00	0.00	
ATOM	1417	HA	LVS	86	-9.725	7.741	0.029	1.00	0.00	ATOM	1511	CA	GLU	92	-16.582	10.671	1.632	1.00	0.00	ATOM	1605	HO2 LVS	97	-12.990	9.142	9.601	1.00	0.00	
ATOM	1418	HN	LVS	86	-7.758	8.280	-0.623	1.00	0.00	ATOM	1512	HN	GLU	92	-15.956	11.174	1.132	1.00	0.00	ATOM	1606	CE	LVS	97	-11.842	10.857	10.311	1.00	0.00
ATOM	1419	HN	LVS	86	-7.758	8.280	-0.623	1.00	0.00	ATOM	1513	CO	GLU	92	-15.956	11.174	1.132	1.00	0.00	ATOM	1607	HN	LVS	97	-11.842	10.857	10.311	1.00	0.00
ATOM	1420	H82 LVS	86	-7.078	7.990	-1.405	1.00	0.00	ATOM	1514	HN	GLU	92	-15.340	12.750	1.408	1.00	0.00	ATOM	1608	H82 LVS	97	-11.618	10.929	10.710	1.00	0.00		
ATOM	1421	CG	LVS	86	-7.853	9.807	-0.532	1.00	0.00	ATOM	1515	H81 GLU	92	-14.464	12.750	2.002	1.00	0.00	ATOM	1609	N2	LVS	97	-12.471	12.111	10.629	1.00	0.00	
ATOM	1422	H82 LVS	86	-8.858	10.091	-0.901	1.00	0.00	ATOM	1516	H82 GLU	92	-16.183	13.062	1.949	1.00	0.00	ATOM	1610	H81 LVS	97	-12.471	12.111	10.629	1.00	0.00			
ATOM	1423	H82 LVS	86	-7.625	10.119	-0.356	1.00	0.00	ATOM	1517	CO	GLU	92	-15.139	13.487	0.150	1.00	0.00	ATOM	1611	H82 LVS	97	-12.672	12.011	11.666	1.00	0.00		
ATOM	1424	CG	LVS	86	-6.882	10.454	-1.626	1.00	0.00	ATOM	1518	HO1 GLU	92	-15.963	14.133	0.021	1.00	0.00	ATOM	1612	H23 LVS	97	-12.672	12.289	10.123	1.00	0.00		
ATOM	1425	HO1 LVS	86	-4.937	11.050	-2.334	1.00	0.00	ATOM	1519	HO2 GLU	92	-15.963	14.133	0.021	1.00	0.00	ATOM	1613	C	LVS	97	-8.816	8.031	6.955	1.00	0.00		
ATOM	1426	HN	LVS	86	-5.860	11.308	-0.330	1.00	0.00	ATOM	1520	CE1 GLU	92	-13.118	14.335	-0.775	1.00	0.00	ATOM	1614	HN	CYS	98	-9.167	6.725	6.681	1.00	0.00	
ATOM	1427	CE	LVS	86	-5.744	10.970	-0.990	1.00	0.00	ATOM	1521	CE2 GLU	92	-13.118	14.335	-0.775	1.00	0.00	ATOM	1615	N	CYS	98	-10.105	6.559	6.681	1.00	0.00	
ATOM	1428	HN	LVS	86	-6.916	11.221	-1.447	1.00	0.00	ATOM	1522	CO2 GLU	92	-15.843	10.432	2.436	1.00	0.00	ATOM	1616	HN	CYS	98	-8.203	5.671	7.039	1.00	0.00	
ATOM	1429	H82 LVS	86	-6.276	12.738	-0.322	1.00	0.00	ATOM	1523	C	GLU	92	-15.529	10.925	3.519	1.00	0.00	ATOM	1617	HA	CYS	98	-8.203	5.671	7.039	1.00	0.00	
ATOM	1430	N2	LVS	86	-6.207	13.135	0.041	1.00	0.00	ATOM	1524	O	GLU	92	-16.429	9.246	2.313	1.00	0.00	ATOM	1618	HA	CYS	98	-8.816	4.348	6.588	1.00	0.00
ATOM	1431	H82 LVS	86	-7.260	12.855	-1.449	1.00	0.00	ATOM	1525	HN	SEK	93	-16.647	8.649	1.417	1.00	0.00	ATOM	1619	CB	CYS	98	-8.816	4.348	6.588	1.00	0.00	
ATOM	1432	H82 LVS	86	-9.805	11.823	-1.449	1.00	0.00	ATOM	1526</																			

REPLACEMENT SHEET

ATOM	1665	HB2	TLE	101	-6.075	5.882	11.709	1.00	0.00	ATOM	1759	CE2	PHE	106	3.941	2.500	1.491	1.00	0.00	ATOM	1853	N2	LVS	111	7.860	11.169	2.702	1.00	0.00
ATOM	1666	HB2	TLE	101	-7.384	5.966	10.334	1.00	0.00	ATOM	1760	CE2	PHE	106	3.993	2.853	0.471	1.00	0.00	ATOM	1854	HB2	LVS	111	7.860	11.169	2.702	1.00	0.00
ATOM	1667	C	TLE	101	-2.511	6.457	8.326	1.00	0.00	ATOM	1761	CE2	PHE	106	4.165	1.864	1.864	1.00	0.00	ATOM	1855	HB2	LVS	111	7.151	10.571	2.187	1.00	0.00
ATOM	1668	O	TLE	101	-1.335	6.807	8.332	1.00	0.00	ATOM	1762	HB2	PHE	106	5.125	0.780	1.050	1.00	0.00	ATOM	1856	HB2	LVS	111	8.121	11.954	2.084	1.00	0.00
ATOM	1669	N	LVS	102	-2.876	5.343	7.590	1.00	0.00	ATOM	1763	C	PHE	106	4.388	5.173	5.110	1.00	0.00	ATOM	1857	C	LVS	111	12.448	7.070	4.423	1.00	0.00
ATOM	1670	N	LVS	102	-2.829	5.117	7.527	1.00	0.00	ATOM	1764	O	PHE	106	5.610	5.093	5.148	1.00	0.00	ATOM	1858	O	LVS	111	13.491	7.189	3.785	1.00	0.00
ATOM	1671	CA	LVS	102	-4.457	6.972	1.00	0.00	ATOM	1765	N	PHE	107	3.795	6.155	4.434	1.00	0.00	ATOM	1859	N	LVS	112	12.348	6.225	5.421	1.00	0.00	
ATOM	1672	CA	LVS	102	-1.350	6.457	1.00	0.00	ATOM	1766	N	PHE	107	4.575	7.180	3.686	1.00	0.00	ATOM	1860	N	LVS	112	13.485	5.515	5.983	1.00	0.00	
ATOM	1673	CA	LVS	102	-2.569	3.416	6.082	1.00	0.00	ATOM	1767	CA	PHE	107	5.076	6.212	2.885	1.00	0.00	ATOM	1861	CA	LVS	112	14.297	6.205	6.161	1.00	0.00
ATOM	1674	HB1	LVS	102	-3.630	3.443	6.283	1.00	0.00	ATOM	1768	HA	PHE	107	3.682	8.212	3.077	1.00	0.00	ATOM	1862	HA	LVS	112	13.126	4.819	7.296	1.00	0.00
ATOM	1675	HB2	LVS	102	-2.408	3.700	5.053	1.00	0.00	ATOM	1769	HA	PHE	107	4.293	8.301	3.811	1.00	0.00	ATOM	1863	CA	LVS	112	12.159	4.350	7.189	1.00	0.00
ATOM	1676	HB2	LVS	102	-2.083	1.971	6.260	1.00	0.00	ATOM	1770	HB1	PHE	107	4.283	9.070	2.810	1.00	0.00	ATOM	1864	HB2	LVS	112	13.864	4.058	7.500	1.00	0.00
ATOM	1677	HB2	LVS	102	-2.423	1.382	5.440	1.00	0.00	ATOM	1771	HB1	PHE	107	2.918	9.170	1.938	1.00	0.00	ATOM	1865	HB2	LVS	112	13.070	5.700	9.248	1.00	0.00
ATOM	1678	HB2	LVS	102	-1.945	1.384	7.552	1.00	0.00	ATOM	1772	CE2	PHE	107	3.978	6.721	1.683	1.00	0.00	ATOM	1866	HB2	LVS	112	13.070	5.700	9.248	1.00	0.00
ATOM	1679	HB1	LVS	102	-1.945	1.384	7.552	1.00	0.00	ATOM	1773	CE2	PHE	107	3.978	6.721	1.683	1.00	0.00	ATOM	1867	HB2	LVS	112	13.070	5.700	9.248	1.00	0.00
ATOM	1680	HB2	LVS	102	-2.958	0.338	7.332	1.00	0.00	ATOM	1774	HB1	PHE	107	3.674	5.712	1.863	1.00	0.00	ATOM	1868	HB2	LVS	112	12.644	6.026	8.169	1.00	0.00
ATOM	1681	HB2	LVS	102	-3.549	1.928	7.818	1.00	0.00	ATOM	1775	CE2	PHE	107	2.098	8.670	1.160	1.00	0.00	ATOM	1869	CE2	LVS	112	14.437	5.027	10.001	1.00	0.00
ATOM	1682	CE2	LVS	102	-0.559	1.928	6.290	1.00	0.00	ATOM	1776	HB2	PHE	107	1.995	9.650	1.580	1.00	0.00	ATOM	1870	CE2	LVS	112	14.847	6.026	9.087	1.00	0.00
ATOM	1683	HB2	LVS	102	-0.147	2.788	5.827	1.00	0.00	ATOM	1777	CE1	PHE	107	2.356	6.089	0.214	1.00	0.00	ATOM	1871	CE2	LVS	112	15.103	6.984	8.941	1.00	0.00
ATOM	1684	HB2	LVS	102	-0.224	1.057	5.749	1.00	0.00	ATOM	1778	HB1	PHE	107	2.460	5.080	-0.154	1.00	0.00	ATOM	1872	C	LVS	112	13.934	6.984	4.954	1.00	0.00
ATOM	1685	HB2	LVS	102	-0.220	1.864	7.113	1.00	0.00	ATOM	1779	CE2	PHE	107	1.413	8.268	0.025	1.00	0.00	ATOM	1873	O	LVS	112	15.128	4.228	4.799	1.00	0.00
ATOM	1686	HB2	LVS	102	-0.220	1.864	7.113	1.00	0.00	ATOM	1780	CE2	PHE	107	1.413	8.268	0.025	1.00	0.00	ATOM	1874	O	LVS	112	15.128	4.228	4.799	1.00	0.00
ATOM	1687	O	LVS	102	-0.220	1.864	7.113	1.00	0.00	ATOM	1781	CE2	PHE	107	1.413	8.268	0.025	1.00	0.00	ATOM	1875	HN	ALA	113	12.037	4.116	4.430	1.00	0.00
ATOM	1688	N	LVS	103	-1.414	6.285	5.433	1.00	0.00	ATOM	1782	HB2	PHE	107	1.007	6.667	-1.316	1.00	0.00	ATOM	1876	CA	ALA	113	13.263	2.883	3.545	1.00	0.00
ATOM	1689	HN	LVS	103	-2.377	6.439	5.484	1.00	0.00	ATOM	1783	C	PHE	107	6.639	7.787	4.571	1.00	0.00	ATOM	1877	HA	ALA	113	14.151	2.356	3.560	1.00	0.00
ATOM	1690	CA	LVS	103	-0.581	7.132	4.612	1.00	0.00	ATOM	1784	O	PHE	107	6.638	8.301	4.075	1.00	0.00	ATOM	1878	CB	ALA	113	12.128	1.872	3.167	1.00	0.00
ATOM	1691	HN	LVS	103	-0.056	6.514	3.900	1.00	0.00	ATOM	1785	N	SEK	108	5.411	7.766	5.883	1.00	0.00	ATOM	1879	HB1	ALA	113	11.209	2.380	2.915	1.00	0.00
ATOM	1692	HN	LVS	103	-1.446	8.146	3.857	1.00	0.00	ATOM	1786	HN	SEK	108	4.619	7.305	6.227	1.00	0.00	ATOM	1880	HB2	ALA	113	12.018	1.381	4.123	1.00	0.00
ATOM	1693	HN	LVS	103	-1.446	8.146	3.857	1.00	0.00	ATOM	1787	HN	SEK	108	4.619	7.305	6.227	1.00	0.00	ATOM	1881	HB2	ALA	113	12.018	1.381	4.123	1.00	0.00
ATOM	1694	HB2	LVS	103	-2.220	7.612	3.320	1.00	0.00	ATOM	1788	CA	SEK	108	5.321	9.173	6.460	1.00	0.00	ATOM	1882	C	ALA	113	13.513	1.512	1.873	1.00	0.00
ATOM	1695	CA	LVS	103	-0.670	8.991	2.860	1.00	0.00	ATOM	1789	CB	SEK	108	5.730	8.643	8.157	1.00	0.00	ATOM	1883	C	ALA	113	13.917	2.823	0.936	1.00	0.00
ATOM	1696	HB2	LVS	103	-1.083	8.991	2.860	1.00	0.00	ATOM	1790	HB1	SEK	108	4.648	8.597	8.942	1.00	0.00	ATOM	1884	N	LVS	114	13.276	4.818	1.753	1.00	0.00
ATOM	1697	HB2	LVS	103	-0.364	8.680	2.871	1.00	0.00	ATOM	1791	HB2	SEK	108	4.940	7.938	8.164	1.00	0.00	ATOM	1885	HN	LVS	114	12.948	5.324	2.523	1.00	0.00
ATOM	1698	CE2	LVS	103	-0.734	10.472	3.178	1.00	0.00	ATOM	1792	CE2	SEK	108	5.181	9.949	8.121	1.00	0.00	ATOM	1886	CA	LVS	114	13.468	5.488	0.480	1.00	0.00
ATOM	1699	CE2	LVS	103	-1.955	10.956	3.442	1.00	0.00	ATOM	1793	HB2	SEK	108	4.501	9.993	7.445	1.00	0.00	ATOM	1887	HB1	LVS	114	14.518	5.488	0.228	1.00	0.00
ATOM	1700	CE2	LVS	103	-1.955	10.956	3.442	1.00	0.00	ATOM	1794	HB2	SEK	108	4.501	9.993	7.445	1.00	0.00	ATOM	1888	HB1	LVS	114	14.518	5.488	0.228	1.00	0.00
ATOM	1701	C	LVS	103	0.439	7.858	2.474	1.00	0.00	ATOM	1795	C	SEK	108	7.049	5.966	6.994	1.00	0.00	ATOM	1889	C	LVS	114	13.227	4.056	-1.417	1.00	0.00
ATOM	1702	O	LVS	103	1.644	7.658	5.334	1.00	0.00	ATOM	1796	N	LVS	109	6.100	5.966	6.994	1.00	0.00	ATOM	1890	O	LVS	114	13.227	4.056	-1.417	1.00	0.00
ATOM	1703	N	LVS	104	-0.052	8.675	6.405	1.00	0.00	ATOM	1797	HN	LVS	109	6.100	5.966	6.994	1.00	0.00	ATOM	1891	N	LVS	115	5.123	-0.690	-1.000	1.00	0.00
ATOM	1704	HN	LVS	104	-1.024	8.786	6.480	1.00	0.00	ATOM	1798	CA	LVS	109	7.953	4.860	7.124	1.00	0.00	ATOM	1892	HN	LVS	115	11.006	4.534	-0.031	1.00	0.00
ATOM	1705	CA	LVS	104	0.821	9.417	7.066	1.00	0.00	ATOM	1799	CA	LVS	109	8.630	5.051	7.951	1.00	0.00	ATOM	1893	CA	LVS	115	11.006	4.534	-0.031	1.00	0.00
ATOM	1706	CA	LVS	104	-0.329	10.172	6.255	1.00	0.00	ATOM	1800	CE2	LVS	109	7.149	3.591	7.461	1.00	0.00	ATOM	1894	CA	LVS	115	11.132	4.160	-2.510	1.00	0.00
ATOM	1707	CA	LVS	104	-0.329	10.172	6.255	1.00	0.00	ATOM	1801	CE2	LVS	109	7.149	3.591	7.461	1.00	0.00	ATOM	1895	CA	LVS	115	11.132	4.160	-2.510	1.00	0.00
ATOM	1708	HB1	LVS	104	-0.949	9.589	8.492	1.00	0.00	ATOM	1802	HB2	LVS	109	7.741	3.742	7.125	1.00	0.00	ATOM	1896	HB1	LVS	115	10.490	3.168	-0.144	1.00	0.00
ATOM	1709	HB1	LVS	104	0.530	10.024	9.335	1.00	0.00	ATOM	1803	CE2	LVS	109	7.741	3.742	7.125	1.00	0.00	ATOM	1897	HB2	LVS	115	10.490	3.168	-0.144	1.00	0.00
ATOM	1710	CE2	LVS	104	-0.278	11.569	8.125	1.00	0.00	ATOM	1804	HB1	LVS	109	5.820	2.866	8.856	1.00	0.00	ATOM	1898	CE2	LVS	115	10.490	3.168	-0.144	1.00	0.00
ATOM	1711	HB1	LVS	104	0.635	12.128	8.261	1.00	0.00	ATOM	1805	CE2	LVS	109	6.562	4.421	9.276	1.00	0.00	ATOM	1899	CE2	LVS	115	9.789	2.058	-0.907	1.00	0.00
ATOM	1712	HB2	LVS	104	-1.028	11.950	8.820	1.00	0.00	ATOM	1806	CE2	LVS	109	7.802	2.732	9.267	1.00	0.00	ATOM	1900	CE2	LVS	115	9.789	2.058	-0.907	1.00	0.00
ATOM	1713	HB2	LVS	104																									

REPLACEMENT SHEET

ATCM	1947	H82 LYS	118	4.432	9.001	-5.028	1.00	0.00
ATCM	1948	CG LYS	118	3.021	10.506	-5.527	1.00	0.00
ATCM	1949	HG1 LYS	118	3.175	10.140	-6.531	1.00	0.00
ATCM	1950	HG2 LYS	118	3.077	11.585	-5.522	1.00	0.00
ATCM	1951	HG3 LYS	118	1.562	12.048	-3.180	1.00	0.00
ATCM	1952	HDI LYS	118	1.422	9.100	-3.443	1.00	0.00
ATCM	1953	H02 LYS	118	1.637	10.044	-3.374	1.00	0.00
ATCM	1954	CE LYS	118	0.569	11.052	-5.518	1.00	0.00
ATCM	1955	HE1 LYS	118	-0.025	11.347	-4.666	1.00	0.00
ATCM	1956	HE2 LYS	118	1.048	11.922	-5.942	1.00	0.00
ATCM	1957	NZ LYS	118	-0.324	10.443	-6.543	1.00	0.00
ATCM	1958	HE3 LYS	118	-0.324	11.585	-5.522	1.00	0.00
ATCM	1959	H23 LYS	118	0.214	10.234	-7.408	1.00	0.00
ATCM	1960	H23 LYS	118	-1.097	11.039	-6.778	1.00	0.00
ATCM	1961	C LYS	118	4.974	12.103	-3.687	1.00	0.00
ATCM	1962	OT1 LYS	118	4.769	13.177	-4.291	1.00	0.00
ATCM	1963	OT2 LYS	118	4.901	11.986	-2.445	1.00	0.00
END								

Table 6

Atomic Structure Coordinates of the
P/CAF Bromodomain/Acetyl-Histamine
Complex

REMARK									
PDBNAME=/dlsch/chr/complex_xplor/structure/tb/complex_81-REMARK									
initial random number seed: 5.960359E+10REMARK									
overall bond, angle, improper, vdw, no, cdhbmak mrcfile: 134.107, 9.85656,									
2.18101, 0.227303, 38.0131, 0.249324REMARK									
bond, angle, improper, no, cdhbmak mrcfile: 134.107, 9.85656,									
03.0.361077.53.7899, 1.40651E-02.0.249335REMARK									
no, cdhbmak violations: 2. 0REMARK									
DATE: 05-									
2.6618	1.705	1.00	0.00	ACH ATOM	2	HA1 ACE	200	-14.803	0.28
1.912	-4.558	1.00	0.00	ACH ATOM	3	HA2 ACE	200	-13.320	0.00
2.304	-5.428	1.00	0.00	ACH ATOM	4	HA3 ACE	200	-14.491	0.00
1.572	-5.067	1.00	0.00	ACH ATOM	5	C ACE	200	-13.332	0.00
2.316	-3.376	1.00	0.00	ACH ATOM	6	C ACE	200	-12.385	0.00
2.218	-3.012	1.00	0.00	ACH ATOM	7	N H1M	201	-13.773	0.00
2.497	-2.683	1.00	0.00	ACH ATOM	8	N H1M	201	-14.521	0.00
1.827	-1.417	1.00	0.00	ACH ATOM	9	CN H1M	201	-14.521	0.00
3.589	-0.620	1.00	0.00	ACH ATOM	10	HA1 H1M	201	-13.833	0.00
3.025	-1.526	1.00	0.00	ACH ATOM	11	HA2 H1M	201	-15.236	0.00
5.100	-1.055	1.00	0.00	ACH ATOM	12	CB H1M	201	-15.268	0.00
5.940	-1.107	1.00	0.00	ACH ATOM	13	HB1 H1M	201	-14.591	0.00
6.329	-2.010	1.00	0.00	ACH ATOM	14	HB2 H1M	201	-13.683	0.00
6.259	-1.793	1.00	0.00	ACH ATOM	15	ND1 H1M	201	-11.392	0.00
6.908	-1.057	1.00	0.00	ACH ATOM	16	ND2 H1M	201	-11.421	0.00
4.756	-3.204	1.00	0.00	ACH ATOM	17	HD1 H1M	201	-16.680	0.00
4.116	-3.779	1.00	0.00	ACH ATOM	18	HD2 H1M	201	-16.680	0.00
6.135	-2.729	1.00	0.00	ACH ATOM	19	CE1 H1M	201	-16.316	0.00
6.333	-2.729	1.00	0.00	ACH ATOM	20	CE2 H1M	201	-16.316	0.00
5.221	-3.592	1.00	0.00	ACH ATOM	21	HE1 H1M	201	-13.220	0.00
16.667	-0.356	1.00	0.00	ACH ATOM	22	HE2 H1M	201	-27.272	0.00
16.198	-0.871	1.00	0.00	ACH ATOM	23	CA GLY	1	28.103	0.00
15.945	-0.255	1.00	0.00	ACH ATOM	24	HA1 GLY	1	28.103	0.00
17.114	1.011	1.00	0.00	ACH ATOM	25	C GLY	1	27.724	0.00
17.834	1.144	1.00	0.00	ACH ATOM	26	C GLY	1	28.713	0.00
17.963	-1.018	1.00	0.00	ACH ATOM	27	O GLY	1	26.700	0.00
17.564	-2.207	1.00	0.00	ACH ATOM	28	N H2 GLY	1	26.911	0.00
18.687	-0.970	1.00	0.00	ACH ATOM	29	HN GLY	1	27.307	0.00
16.682	2.037	1.00	0.00	ACH ATOM	30	N SER	2	26.999	0.00
16.110	1.866	1.00	0.00	ACH ATOM	31	N SER	2	27.322	0.00
17.043	3.411	1.00	0.00	ACH ATOM	32	CA SER	2	27.322	0.00
17.346	3.975	1.00	0.00	ACH ATOM	33	HA SER	2	28.283	0.00
18.588	4.762	1.00	0.00	ACH ATOM	34	HA SER	2	28.283	0.00
17.414	4.374	1.00	0.00	ACH ATOM	35	HN SER	2	26.705	0.00
18.897	2.969	1.00	0.00	ACH ATOM	36	HN SER	2	26.705	0.00
19.429	2.650	1.00	0.00	ACH ATOM	37	CA SER	2	25.771	0.00
15.803	5.627	1.00	0.00	ACH ATOM	38	HA SER	2	25.771	0.00
16.803	5.627	1.00	0.00	ACH ATOM	39	HA SER	2	25.771	0.00
15.972	7.799	1.00	0.00	ACH ATOM	40	HN SER	2	26.478	0.00
15.176	7.399	1.00	0.00	ACH ATOM	41	HN SER	2	26.478	0.00
14.488	8.178	1.00	0.00	ACH ATOM	42	CA SER	2	27.435	0.00
14.248	8.178	1.00	0.00	ACH ATOM	43	CA SER	2	27.435	0.00
17.248	8.039	1.00	0.00	ACH ATOM	44	HN SER	2	28.514	0.00
16.718	9.062	1.00	0.00	ACH ATOM	45	HN SER	2	28.514	0.00
16.015	9.465	1.00	0.00	ACH ATOM	46	CA HIS	3	28.308	0.00
17.975	7.796	1.00	0.00	ACH ATOM	47	CA HIS	3	29.335	0.00
17.971	7.055	1.00	0.00	ACH ATOM	48	HN HIS	3	29.335	0.00
17.971	7.055	1.00	0.00	ACH ATOM	49	HN HIS	3	29.335	0.00
18.615	8.668	1.00	0.00	ACH ATOM	50	CA HIS	3	29.335	0.00
18.615	8.668	1.00	0.00	ACH ATOM	51	CA HIS	3	29.335	0.00
14.968	7.020	1.00	0.00	ACH ATOM	52	HN HIS	3	29.710	0.00
14.968	7.020	1.00	0.00	ACH ATOM	53	HN HIS	3	29.710	0.00
13.551	6.005	1.00	0.00	ACH ATOM	54	CA HIS	3	29.710	0.00
13.551	6.005	1.00	0.00	ACH ATOM	55	CA HIS	3	29.710	0.00
13.119	6.951	1.00	0.00	ACH ATOM	56	HN HIS	3	29.710	0.00
13.119	6.951	1.00	0.00	ACH ATOM	57	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	58	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	59	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	60	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	61	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	62	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	63	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	64	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	65	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	66	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	67	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	68	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	69	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	70	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	71	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	72	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	73	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	74	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	75	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	76	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	77	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	78	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	79	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	80	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	81	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	82	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	83	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	84	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	85	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	86	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	87	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	88	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	89	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	90	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	91	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	92	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	93	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	94	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	95	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	96	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	97	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	98	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	99	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	100	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	101	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	102	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	103	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	104	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	105	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	106	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	107	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	108	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	109	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	110	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	111	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	112	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	113	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	114	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	115	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	116	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	117	HN HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	118	CA HIS	3	29.710	0.00
12.767	7.958	1.00	0.00	ACH ATOM	119	CA HIS	3	29.710	0.00
12.767	7.958	1.00							

REPLACEMENT SHEET

7.249	-6.857	1.00	0.00	BRD ATOM	253	HE2	TYR	15	9.275	-	6.831	2.377	1.00	0.00	BRD ATOM	347	HC2	TLE	21	3.319	-	12.885	-9.465	1.00	0.00	BRD ATOM	443	HE1	LVS	26	-1.215	-
7.326	-7.111	1.00	0.00	BRD ATOM	254	CB	TYR	15	11.284	-	6.403	2.603	1.00	0.00	BRD ATOM	348	HC2	TLE	21	3.073	-	13.285	-9.984	1.00	0.00	BRD ATOM	444	HE2	LVS	26	-0.358	-
7.352	-7.706	1.00	0.00	BRD ATOM	255	HH	TYR	15	10.908	-	6.145	3.053	1.00	0.00	BRD ATOM	349	COL	TLE	21	3.222	-	13.461	-8.710	1.00	0.00	BRD ATOM	445	CB	LVS	26	-0.358	-
8.358	-8.997	1.00	0.00	BRD ATOM	256	HH	TYR	15	10.572	-	6.190	-0.427	1.00	0.00	BRD ATOM	350	HD1	TLE	21	3.805	-	12.749	-10.199	1.00	0.00	BRD ATOM	446	C	LVS	26	-4.762	-
7.232	-8.997	1.00	0.00	BRD ATOM	257	C	TYR	15	10.859	-	5.205	-0.338	1.00	0.00	BRD ATOM	351	HD1	TLE	21	2.284	-	10.991	-8.936	1.00	0.00	BRD ATOM	447	C	LVS	26	-4.762	-
7.326	-8.997	1.00	0.00	BRD ATOM	258	C	TYR	15	10.859	-	6.200	-0.501	1.00	0.00	BRD ATOM	352	HD1	TLE	21	3.075	-	12.116	-4.332	1.00	0.00	BRD ATOM	448	C	LVS	26	-4.762	-
7.326	-8.997	1.00	0.00	BRD ATOM	259	C	TYR	15	10.859	-	9.361	-1.044	1.00	0.00	BRD ATOM	353	C	TLE	21	1.989	-	12.116	-4.332	1.00	0.00	BRD ATOM	449	C	LVS	26	-4.762	-
8.026	-1.905	1.00	0.00	BRD ATOM	260	HH	TYR	16	12.485	-	9.361	-1.044	1.00	0.00	BRD ATOM	354	C	TLE	21	1.989	-	13.257	-4.516	1.00	0.00	BRD ATOM	450	HA	TYR	27	-6.104	-
7.666	-1.905	1.00	0.00	BRD ATOM	261	HH	TYR	16	12.485	-	8.608	-2.034	1.00	0.00	BRD ATOM	355	C	TLE	21	2.433	-	13.100	-5.091	1.00	0.00	BRD ATOM	451	HA	TYR	27	-4.532	-
9.384	-1.602	1.00	0.00	BRD ATOM	262	HA	TYR	16	11.148	-	8.608	-2.034	1.00	0.00	BRD ATOM	356	HA	TYR	22	3.125	-	14.553	-4.976	1.00	0.00	BRD ATOM	452	HA	TYR	27	-5.629	-
9.384	-1.602	1.00	0.00	BRD ATOM	263	HA	TYR	16	11.148	-	8.224	-1.957	1.00	0.00	BRD ATOM	357	CA	LEU	22	1.668	-	15.731	-4.404	1.00	0.00	BRD ATOM	453	HE2	TYR	27	-5.207	-
9.040	-0.732	1.00	0.00	BRD ATOM	264	HA	TYR	16	13.503	-	7.807	-2.329	1.00	0.00	BRD ATOM	358	HA	LEU	22	2.451	-	14.381	-4.818	1.00	0.00	BRD ATOM	454	HE2	TYR	27	-5.207	-
10.135	-1.289	1.00	0.00	BRD ATOM	265	HA	TYR	16	12.601	-	7.807	-2.329	1.00	0.00	BRD ATOM	359	HA	LEU	22	2.451	-	14.381	-4.818	1.00	0.00	BRD ATOM	455	HE2	TYR	27	-5.207	-
11.317	-0.476	1.00	0.00	BRD ATOM	266	HA	TYR	16	12.601	-	7.807	-2.329	1.00	0.00	BRD ATOM	360	HA	LEU	22	2.451	-	14.381	-4.818	1.00	0.00	BRD ATOM	456	HE2	TYR	27	-5.207	-
9.370	-0.476	1.00	0.00	BRD ATOM	267	HA	TYR	16	9.909	-	7.807	-2.329	1.00	0.00	BRD ATOM	361	HA	LEU	22	1.722	-	14.381	-4.818	1.00	0.00	BRD ATOM	457	HE2	TYR	27	-5.207	-
9.370	-0.476	1.00	0.00	BRD ATOM	268	HA	TYR	16	9.909	-	7.807	-2.329	1.00	0.00	BRD ATOM	362	HA	LEU	22	1.722	-	14.381	-4.818	1.00	0.00	BRD ATOM	458	HE2	TYR	27	-5.207	-
10.132	-1.161	1.00	0.00	BRD ATOM	269	C	TYR	17	9.028	-	7.807	-2.329	1.00	0.00	BRD ATOM	363	HA	LEU	22	1.378	-	14.381	-4.818	1.00	0.00	BRD ATOM	459	HE2	TYR	27	-5.207	-
9.420	0.038	1.00	0.00	BRD ATOM	270	N	TYR	17	10.439	-	7.807	-2.329	1.00	0.00	BRD ATOM	364	COL	LEU	22	2.655	-	12.443	-2.567	1.00	0.00	BRD ATOM	460	HA	TYR	28	-5.473	-
9.420	0.038	1.00	0.00	BRD ATOM	271	HA	TYR	17	10.439	-	6.362	-6.437	1.00	0.00	BRD ATOM	365	HD1	LEU	22	3.601	-	12.137	-2.783	1.00	0.00	BRD ATOM	461	HA	TYR	28	-5.473	-
8.426	0.785	1.00	0.00	BRD ATOM	272	HA	TYR	17	8.514	-	6.362	-6.437	1.00	0.00	BRD ATOM	366	HD1	LEU	22	2.885	-	11.418	-2.783	1.00	0.00	BRD ATOM	462	HA	TYR	28	-5.473	-
9.200	1.296	1.00	0.00	BRD ATOM	273	CB	TYR	17	8.656	-	6.362	-6.437	1.00	0.00	BRD ATOM	367	HD1	LEU	22	2.885	-	11.418	-2.783	1.00	0.00	BRD ATOM	463	HA	TYR	28	-5.473	-
7.146	1.820	1.00	0.00	BRD ATOM	274	CB	TYR	17	9.069	-	6.362	-6.437	1.00	0.00	BRD ATOM	368	HD1	LEU	22	2.885	-	11.418	-2.783	1.00	0.00	BRD ATOM	464	HA	TYR	28	-5.473	-
6.725	1.313	1.00	0.00	BRD ATOM	275	COI	TYR	17	10.426	-	6.472	-4.199	1.00	0.00	BRD ATOM	369	HD1	LEU	22	-0.259	-	10.146	-0.742	1.00	0.00	BRD ATOM	465	HA	TYR	28	-5.473	-
7.535	2.857	1.00	0.00	BRD ATOM	276	COI	TYR	17	10.426	-	6.472	-4.199	1.00	0.00	BRD ATOM	370	HD1	LEU	22	-0.259	-	10.146	-0.742	1.00	0.00	BRD ATOM	466	HA	TYR	28	-5.473	-
6.533	2.502	1.00	0.00	BRD ATOM	277	COI	TYR	17	7.346	-	5.401	-5.918	1.00	0.00	BRD ATOM	371	HD1	LEU	22	0.790	-	10.884	1.205	1.00	0.00	BRD ATOM	467	HA	TYR	28	-5.473	-
6.533	2.502	1.00	0.00	BRD ATOM	278	COI	TYR	17	7.346	-	9.636	-3.915	1.00	0.00	BRD ATOM	372	C	LEU	22	0.086	-	11.931	2.081	1.00	0.00	BRD ATOM	468	HA	TYR	28	-5.473	-
7.600	2.589	1.00	0.00	BRD ATOM	279	COI	TYR	17	7.545	-	9.636	-3.915	1.00	0.00	BRD ATOM	373	C	LEU	22	2.201	-	9.754	1.966	1.00	0.00	BRD ATOM	469	HA	TYR	28	-5.473	-
6.012	1.832	1.00	0.00	BRD ATOM	280	COI	TYR	17	7.545	-	10.354	-3.725	1.00	0.00	BRD ATOM	374	C	LEU	22	2.201	-	11.456	3.262	1.00	0.00	BRD ATOM	470	HA	TYR	28	-5.473	-
6.289	3.427	1.00	0.00	BRD ATOM	281	COI	TYR	17	7.356	-	10.354	-3.725	1.00	0.00	BRD ATOM	375	C	LEU	22	1.941	-	12.044	4.141	1.00	0.00	BRD ATOM	471	HA	TYR	28	-5.473	-
7.971	-0.161	1.00	0.00	BRD ATOM	282	C	TYR	17	6.420	-	11.670	-5.754	1.00	0.00	BRD ATOM	376	HA	GLN	23	3.118	-	10.139	3.189	1.00	0.00	BRD ATOM	472	HA	TYR	28	-6.350	-
8.757	-0.277	1.00	0.00	BRD ATOM	283	C	TYR	17	6.420	-	11.670	-5.754	1.00	0.00	BRD ATOM	377	HA	GLN	23	3.118	-	9.536	3.925	1.00	0.00	BRD ATOM	473	C	HIS	28	-7.364	-
6.532	-0.843	1.00	0.00	BRD ATOM	284	N	LEU	18	8.212	-	12.793	-4.654	1.00	0.00	BRD ATOM	378	CB	GLN	23	3.720	-	12.017	-0.850	1.00	0.00	BRD ATOM	474	C	HIS	28	-7.364	-
6.532	-0.843	1.00	0.00	BRD ATOM	285	N	LEU	18	8.212	-	12.793	-4.654	1.00	0.00	BRD ATOM	379	CB	GLN	23	3.720	-	11.356	-1.658	1.00	0.00	BRD ATOM	475	N	GLN	29	-7.979	-
6.532	-0.843	1.00	0.00	BRD ATOM	286	N	LEU	18	8.212	-	12.793	-4.654	1.00	0.00	BRD ATOM	380	CB	GLN	23	3.720	-	11.356	-1.658	1.00	0.00	BRD ATOM	476	N	GLN	29	-7.979	-
6.434	-1.776	1.00	0.00	BRD ATOM	287	HA	LEU	18	6.871	-	12.793	-4.654	1.00	0.00	BRD ATOM	381	CB	GLN	23	4.012	-	11.356	-1.658	1.00	0.00	BRD ATOM	477	HA	GLN	29	-6.939	-
6.122	-1.197	1.00	0.00	BRD ATOM	288	CB	LEU	18	7.669	-	12.793	-4.654	1.00	0.00	BRD ATOM	382	CB	GLN	23	4.012	-	11.356	-1.658	1.00	0.00	BRD ATOM	478	HA	GLN	29	-6.939	-
5.218	-2.591	1.00	0.00	BRD ATOM	289	HH	LEU	18	7.669	-	12.793	-4.654	1.00	0.00	BRD ATOM	383	CB	GLN	23	4.012	-	11.356	-1.658	1.00	0.00	BRD ATOM	479	HA	GLN	29	-6.939	-
5.424	-3.243	1.00	0.00	BRD ATOM	290	HH	LEU	18	6.049	-	13.535	-5.393	1.00	0.00	BRD ATOM	384	CB	GLN	23	3.316	-	12.688	-0.687	1.00	0.00	BRD ATOM	480	HH	GLN	29	-9.480	-
4.869	-3.198	1.00	0.00	BRD ATOM	291	CG	LEU	18	7.377	-	13.535	-5.393	1.00	0.00	BRD ATOM	385	CG	GLN	23	2.634	-	13.761	1.090	1.00	0.00	BRD ATOM	481	HH	GLN	29	-9.480	-
4.350	-1.720	1.00	0.00	BRD ATOM	292	CG	LEU	18	8.301	-	14.820	-8.034	1.00	0.00	BRD ATOM	386	CG	GLN	23	4.058	-	13.761	1.090	1.00	0.00	BRD ATOM	482	HH	GLN	29	-9.480	-
4.350	-1.720	1.00	0.00	BRD ATOM	293	CG	LEU	18	8.301	-	14.820	-8.034	1.00	0.00	BRD ATOM	387	CG	GLN	23	4.058	-	13.761	1.090	1.00	0.00	BRD ATOM	483	HH	GLN	29	-9.480	-
2.840	-2.622	1.00	0.00	BRD ATOM	294	HH	LEU	18	8.657	-	13.567	-8.786	1.00	0.00	BRD ATOM	388	CG	GLN	23	3.055	-	13.901	1.092	1.00	0.00	BRD ATOM	484	HH	GLN	29	-9.480	-
2.882	-3.455	1.00	0.00	BRD ATOM	295	HH	LEU	18	7.523	-	13.567	-8.786	1.00	0.00	BRD ATOM	389	CG	GLN	23	3.055	-	13.901	1.092	1.00	0.00	BRD ATOM	485	HH	GLN	29	-9.480	-
2.882	-3.455	1.00	0.00	BRD ATOM	296	HH	LEU	18	7.523	-	12.892	-4.925	1.00	0.00	BRD ATOM	390	C	GLN	24	-0.207	-	14.887	-0.368	1.00	0.00	BRD ATOM	486	HH	GLN	29	-9.480	-
1.941	-2.039	1.00	0.00	BRD ATOM	297	COI	LEU	18	6.417	-	12.892	-4.925	1.00	0.00	BRD ATOM	391	N															

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9.152	-0.365	1.00	0.00	BD ATOM	817	HB	11E	50	-6.001	0.513	-6.586	1.00	0.00	BD ATOM	911	CA	LEU	56	-3.106	5.934	-13.617	1.00	0.00	BD ATOM	1005	C	GLU	61	3.565	-
9.428	-0.635	1.00	0.00	BD ATOM	818	CO1	11E	50	-7.818	2.010	-6.111	1.00	0.00	BD ATOM	912	CA	LEU	56	-3.106	5.934	-13.617	1.00	0.00	BD ATOM	1006	C	GLU	61	3.565	-
9.035	0.436	1.00	0.00	BD ATOM	819	HE1	11E	50	-8.256	1.790	-5.810	1.00	0.00	BD ATOM	913	CB	LEU	56	-3.804	3.601	-12.782	1.00	0.00	BD ATOM	1007	N	ARG	62	1.756	-
10.011	0.288	1.00	0.00	BD ATOM	820	HE1	11E	50	-8.158	3.224	-5.292	1.00	0.00	BD ATOM	914	HE1	LEU	56	-3.692	2.137	-11.244	1.00	0.00	BD ATOM	1008	N	ARG	62	1.756	-
8.717	-0.344	1.00	0.00	BD ATOM	821	CO2	11E	50	-5.644	4.115	-5.892	1.00	0.00	BD ATOM	915	CB	LEU	56	-4.952	1.836	-10.697	1.00	0.00	BD ATOM	1009	CA	ARG	62	4.999	-
8.432	0.644	1.00	0.00	BD ATOM	822	HE2	11E	50	-6.289	3.082	-5.089	1.00	0.00	BD ATOM	916	CB	LEU	56	-3.088	1.426	-11.155	1.00	0.00	BD ATOM	1010	CA	ARG	62	5.352	-
7.930	1.139	1.00	0.00	BD ATOM	823	HE2	11E	50	-8.289	4.471	-3.962	1.00	0.00	BD ATOM	917	HE1	LEU	56	-3.156	1.826	-12.162	1.00	0.00	BD ATOM	1011	CB	ARG	62	4.807	-
7.350	1.339	1.00	0.00	BD ATOM	824	HE1	11E	50	-8.324	4.770	-3.744	1.00	0.00	BD ATOM	918	HE1	LEU	56	-4.952	0.975	-10.468	1.00	0.00	BD ATOM	1012	HE1	ARG	62	5.753	-
8.499	1.757	1.00	0.00	BD ATOM	825	CO1	11E	50	-8.330	5.539	-3.606	1.00	0.00	BD ATOM	919	HE1	LEU	56	-4.497	0.187	-9.668	1.00	0.00	BD ATOM	1013	CO1	ARG	62	4.071	-
9.293	2.489	1.00	0.00	BD ATOM	826	HE1	11E	50	-7.674	5.040	-3.719	1.00	0.00	BD ATOM	920	HE1	LEU	56	-3.662	1.018	-11.404	1.00	0.00	BD ATOM	1014	CO1	ARG	62	4.882	-
7.204	2.094	1.00	0.00	BD ATOM	827	HE1	11E	50	-9.326	4.668	-2.270	1.00	0.00	BD ATOM	921	CO1	LEU	56	-1.580	1.928	-11.195	1.00	0.00	BD ATOM	1015	HE1	ARG	62	4.494	-
8.118	1.631	1.00	0.00	BD ATOM	828	HE1	11E	50	-4.890	3.419	-4.155	1.00	0.00	BD ATOM	922	CO1	LEU	56	-1.152	1.728	-12.424	1.00	0.00	BD ATOM	1016	CO2	ARG	62	2.826	-
10.320	0.320	1.00	0.00	BD ATOM	829	C	11E	50	-4.504	3.188	-3.209	1.00	0.00	BD ATOM	923	HE2	LEU	56	-1.144	0.718	-10.335	1.00	0.00	BD ATOM	1017	HE2	ARG	62	2.484	-
11.444	-0.327	1.00	0.00	BD ATOM	830	N	ARG	51	-3.443	2.562	-3.671	1.00	0.00	BD ATOM	924	HE2	LEU	56	-1.105	0.738	-10.335	1.00	0.00	BD ATOM	1018	HE2	ARG	62	2.484	-
11.597	1.428	1.00	0.00	BD ATOM	831	CA	ARG	51	-2.082	2.400	-7.587	1.00	0.00	BD ATOM	925	CA	LEU	56	-4.272	0.851	-13.382	1.00	0.00	BD ATOM	1019	CA	ARG	62	2.052	-
10.086	2.260	1.00	0.00	BD ATOM	832	CA	ARG	51	-2.082	2.400	-7.587	1.00	0.00	BD ATOM	926	N	LEU	56	-4.475	0.028	-12.316	1.00	0.00	BD ATOM	1020	CA	ARG	62	1.903	-
11.061	0.969	1.00	0.00	BD ATOM	833	HA	ARG	51	-0.968	2.304	-8.207	1.00	0.00	BD ATOM	927	N	LEU	57	-5.261	1.585	-13.485	1.00	0.00	BD ATOM	1021	CA	ARG	62	1.183	-
12.139	1.024	1.00	0.00	BD ATOM	834	CA	ARG	51	-0.968	2.304	-8.207	1.00	0.00	BD ATOM	928	N	LEU	57	-4.534	1.125	-14.498	1.00	0.00	BD ATOM	1022	CA	ARG	62	1.072	-
12.139	1.024	1.00	0.00	BD ATOM	835	CB	ARG	51	-1.452	2.020	-7.696	1.00	0.00	BD ATOM	929	HA	LEU	57	-4.534	0.628	-15.324	1.00	0.00	BD ATOM	1023	HE1	ARG	62	0.752	-
10.481	1.970	1.00	0.00	BD ATOM	836	HE1	ARG	51	-0.314	2.639	-9.413	1.00	0.00	BD ATOM	930	HA	LEU	57	-4.534	0.628	-15.324	1.00	0.00	BD ATOM	1024	HE1	ARG	62	0.752	-
12.451	1.341	1.00	0.00	BD ATOM	837	HE1	ARG	51	-0.314	2.639	-9.413	1.00	0.00	BD ATOM	931	HA	LEU	57	-4.534	0.628	-15.324	1.00	0.00	BD ATOM	1025	HE2	ARG	62	2.473	-
9.689	1.341	1.00	0.00	BD ATOM	838	HE1	ARG	51	-0.314	2.639	-9.413	1.00	0.00	BD ATOM	932	HE1	LEU	57	-4.534	0.628	-15.324	1.00	0.00	BD ATOM	1026	HE2	ARG	62	2.473	-
11.516	2.301	1.00	0.00	BD ATOM	839	HE1	ARG	51	-0.399	2.172	-10.108	1.00	0.00	BD ATOM	933	HE1	LEU	57	-4.534	0.628	-15.324	1.00	0.00	BD ATOM	1027	HE2	ARG	62	2.473	-
12.185	3.022	1.00	0.00	BD ATOM	840	NO2	ARG	51	-0.883	2.764	-9.608	1.00	0.00	BD ATOM	934	HE1	LEU	57	-6.139	3.129	-14.395	1.00	0.00	BD ATOM	1028	HE2	ARG	62	3.239	-
11.000	2.753	1.00	0.00	BD ATOM	841	CD	ARG	51	-0.552	1.139	-9.850	1.00	0.00	BD ATOM	935	CO	LEU	57	-6.139	3.129	-14.395	1.00	0.00	BD ATOM	1029	HE2	ARG	62	3.239	-
12.329	1.120	1.00	0.00	BD ATOM	842	CD	ARG	51	-0.514	2.328	-11.608	1.00	0.00	BD ATOM	936	NO2	LEU	57	-5.183	2.255	-10.405	1.00	0.00	BD ATOM	1030	C	ARG	62	6.040	-
11.713	0.230	1.00	0.00	BD ATOM	843	NO2	ARG	51	-0.900	1.845	-12.118	1.00	0.00	BD ATOM	937	NO2	LEU	57	-7.132	2.569	-10.945	1.00	0.00	BD ATOM	1031	N	LEU	63	5.734	-
12.789	1.318	1.00	0.00	BD ATOM	844	HE	ARG	51	1.523	1.856	-11.889	1.00	0.00	BD ATOM	938	CD	LEU	57	-6.248	2.606	-9.158	1.00	0.00	BD ATOM	1032	N	LEU	63	4.875	-
12.789	1.318	1.00	0.00	BD ATOM	845	HE	ARG	51	1.523	1.856	-11.889	1.00	0.00	BD ATOM	939	CD	LEU	57	-6.248	2.606	-9.158	1.00	0.00	BD ATOM	1033	CA	LEU	63	6.651	-
13.279	0.344	1.00	0.00	BD ATOM	846	CD	ARG	51	2.683	4.068	-13.327	1.00	0.00	BD ATOM	940	CD	LEU	57	-5.259	2.328	-8.780	1.00	0.00	BD ATOM	1034	CA	LEU	63	7.486	-
13.678	0.602	1.00	0.00	BD ATOM	847	HE1	ARG	51	4.491	4.383	-11.181	1.00	0.00	BD ATOM	941	CE	LEU	57	-7.210	3.129	-14.395	1.00	0.00	BD ATOM	1035	HE1	LEU	63	5.009	-
14.046	-0.132	1.00	0.00	BD ATOM	848	HE1	ARG	51	4.491	4.011	-13.180	1.00	0.00	BD ATOM	942	HE1	LEU	57	-7.354	1.840	-7.043	1.00	0.00	BD ATOM	1036	HE1	LEU	63	5.009	-
13.610	1.532	1.00	0.00	BD ATOM	849	HE1	ARG	51	4.284	3.073	-13.697	1.00	0.00	BD ATOM	943	HE2	LEU	57	-8.532	4.277	-7.302	1.00	0.00	BD ATOM	1037	HE2	LEU	63	6.736	-
13.610	1.532	1.00	0.00	BD ATOM	850	HE2	ARG	51	2.206	4.515	-12.715	1.00	0.00	BD ATOM	944	HE2	LEU	57	-8.532	2.962	-6.442	1.00	0.00	BD ATOM	1038	CG	LEU	63	6.736	-
13.723	-1.623	1.00	0.00	BD ATOM	851	HE2	ARG	51	2.779	4.515	-12.715	1.00	0.00	BD ATOM	945	HE2	LEU	57	-8.532	4.857	-6.186	1.00	0.00	BD ATOM	1039	CG	LEU	63	6.429	-
13.723	-1.623	1.00	0.00	BD ATOM	852	HE2	ARG	51	2.779	4.515	-12.715	1.00	0.00	BD ATOM	946	HE2	LEU	57	-8.532	4.857	-6.186	1.00	0.00	BD ATOM	1040	CG	LEU	63	6.429	-
13.071	-1.089	1.00	0.00	BD ATOM	853	C	ARG	51	-1.531	5.162	-13.429	1.00	0.00	BD ATOM	947	HE2	LEU	57	-3.312	4.754	-5.156	1.00	0.00	BD ATOM	1041	HE1	LEU	63	8.420	-
11.641	-1.360	1.00	0.00	BD ATOM	854	N	SER	52	-1.644	2.015	-10.473	1.00	0.00	BD ATOM	948	C	LEU	57	-3.312	1.689	-6.247	1.00	0.00	BD ATOM	1042	HE1	LEU	63	8.420	-
9.322	-0.687	1.00	0.00	BD ATOM	855	N	SER	52	-2.010	2.923	-9.989	1.00	0.00	BD ATOM	949	C	LEU	57	-3.312	1.689	-6.247	1.00	0.00	BD ATOM	1043	HE1	LEU	63	8.420	-
8.718	-0.687	1.00	0.00	BD ATOM	856	N	SER	52	-1.634	0.552	-9.135	1.00	0.00	BD ATOM	950	N	THR	58	-3.340	6.804	-6.842	1.00	0.00	BD ATOM	1044	CO2	LEU	63	7.312	-
9.462	-2.742	1.00	0.00	BD ATOM	857	HA	SER	52	-1.951	0.552	-9.135	1.00	0.00	BD ATOM	951	N	THR	58	-3.340	6.804	-6.842	1.00	0.00	BD ATOM	1045	CO2	LEU	63	7.312	-
8.497	-2.253	1.00	0.00	BD ATOM	858	HA	SER	52	-1.951	0.552	-9.135	1.00	0.00	BD ATOM	952	CA	THR	58	-1.901	6.248	-6.842	1.00	0.00	BD ATOM	1046	CO2	LEU	63	7.312	-
8.900	-1.430	1.00	0.00	BD ATOM	859	CD	SER	52	0.426	0.710	-10.745	1.00	0.00	BD ATOM	953	CA	THR	58	-1.901	6.248	-6.842	1.00	0.00	BD ATOM	1047	CO2	LEU	63	7.312	-
7.433	-2.325	1.00	0.00	BD ATOM	860	HE1	SER	52	0.028	1.213	-10.967	1.00	0.00	BD ATOM	954	HE1	THR	58	-3.611	4.683	-9.203	1.00	0.00	BD ATOM	1048	C	LEU	64	6.214	-
9.112	-3.453	1.00	0.00	BD ATOM	861	HE2	SER	52	0.290	1.660	-10.024	1.00	0.00	BD ATOM	955	HE1	THR	58	-3.403	5.390	-9.643	1.00	0.00	BD ATOM	1049	N	LEU	64	5.231	-
9.788	-4.152	1.00	0.00	BD ATOM	862	CG	SER	52	-2.415	1.313	-12.755	1.00	0.00	BD ATOM	956	HE1	THR	58	-3.101	5.390	-9.643	1.00	0.00	BD ATOM	1050	N	LEU	64	5.231	-
9.182	-1.801	1.00	0.00	BD ATOM	863	CG	SER	52	-2.415	1.313	-12.755	1.00	0.00	BD ATOM	957	CG2	THR	58	-1.197	6.352	-9.595	1.00								

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0.514	3.764	1.00	0.00	BD ATOM	1381	CB	PHE	82	-4.131	-	5.541	4.446	1.00	0.00	BD ATOM	1475	CA	TYR	88	-12.759	-	7.446	4.078	1.00	0.00	BD ATOM	1507	OE1	GLU	94	-16.617	-
0.833	4.899	1.00	0.00	BD ATOM	1382	HB	PHE	82	-3.486	-	6.319	4.446	1.00	0.00	BD ATOM	1476	HA	TYR	88	-13.070	-	7.446	4.078	1.00	0.00	BD ATOM	1508	OE2	GLU	94	-16.617	-
0.220	5.511	1.00	0.00	BD ATOM	1383	HB2	PHE	82	-4.712	-	7.330	4.344	1.00	0.00	BD ATOM	1477	CB	TYR	88	-12.361	-	8.370	3.840	1.00	0.00	BD ATOM	1509	OE3	GLU	94	-14.432	-
1.484	5.536	1.00	0.00	BD ATOM	1384	CO	PHE	82	-2.261	-	6.363	2.568	1.00	0.00	BD ATOM	1478	HB1	TYR	88	-11.333	-	3.556	5.725	1.00	0.00	BD ATOM	1510	OE4	GLU	94	-14.432	-
1.695	4.028	1.00	0.00	BD ATOM	1385	CO1	PHE	82	-1.979	-	6.502	2.489	1.00	0.00	BD ATOM	1479	HB2	TYR	88	-12.537	-	4.135	5.876	1.00	0.00	BD ATOM	1511	OE5	GLU	94	-14.432	-
1.695	4.028	1.00	0.00	BD ATOM	1386	CO2	PHE	82	-1.979	-	5.388	2.339	1.00	0.00	BD ATOM	1480	CO	TYR	88	-13.138	-	2.357	5.150	1.00	0.00	BD ATOM	1512	OE6	GLU	94	-14.432	-
1.677	5.376	1.00	0.00	BD ATOM	1387	HB	PHE	82	-4.723	-	8.246	1.305	1.00	0.00	BD ATOM	1481	CO1	TYR	88	-12.666	-	1.930	5.057	1.00	0.00	BD ATOM	1513	OE7	GLU	94	-14.432	-
2.162	2.809	1.00	0.00	BD ATOM	1388	HB2	PHE	82	-4.723	-	8.246	1.305	1.00	0.00	BD ATOM	1482	CO2	TYR	88	-14.372	-	2.327	3.840	1.00	0.00	BD ATOM	1514	OE8	GLU	94	-14.432	-
2.827	3.628	1.00	0.00	BD ATOM	1389	HB1	PHE	82	-0.177	-	7.066	1.313	1.00	0.00	BD ATOM	1483	HB2	TYR	88	-13.792	-	0.260	4.166	1.00	0.00	BD ATOM	1515	OE9	GLU	94	-14.432	-
2.952	3.951	1.00	0.00	BD ATOM	1390	HB2	PHE	82	-0.177	-	6.087	1.392	1.00	0.00	BD ATOM	1484	HB1	TYR	88	-12.880	-	0.160	4.827	1.00	0.00	BD ATOM	1516	OE10	GLU	94	-14.432	-
2.952	2.004	1.00	0.00	BD ATOM	1391	CE2	PHE	82	-3.302	-	9.568	0.755	1.00	0.00	BD ATOM	1485	CE1	TYR	88	-15.075	-	0.267	4.176	1.00	0.00	BD ATOM	1517	OE11	GLU	94	-14.432	-
3.284	1.073	1.00	0.00	BD ATOM	1392	CE2	PHE	82	-1.651	-	10.562	0.578	1.00	0.00	BD ATOM	1486	CE2	TYR	88	-16.042	-	1.350	2.245	1.00	0.00	BD ATOM	1518	OE12	GLU	94	-14.432	-
3.284	1.073	1.00	0.00	BD ATOM	1393	CE1	PHE	82	-1.651	-	7.959	0.462	1.00	0.00	BD ATOM	1487	CE1	TYR	88	-15.213	-	0.380	2.959	1.00	0.00	BD ATOM	1519	OE13	GLU	94	-14.432	-
3.906	1.729	1.00	0.00	BD ATOM	1394	CE1	PHE	82	-6.745	-	9.228	0.236	1.00	0.00	BD ATOM	1488	CE2	TYR	88	-16.042	-	1.749	2.343	1.00	0.00	BD ATOM	1520	OE14	GLU	94	-14.432	-
1.197	4.994	1.00	0.00	BD ATOM	1395	O	PHE	82	-6.745	-	10.465	-0.512	1.00	0.00	BD ATOM	1489	O	TYR	88	-15.993	-	1.377	0.963	1.00	0.00	BD ATOM	1521	OE15	GLU	94	-14.432	-
2.180	5.431	1.00	0.00	BD ATOM	1396	O	PHE	82	-6.745	-	10.465	-0.512	1.00	0.00	BD ATOM	1490	O	TYR	88	-15.993	-	2.208	0.579	1.00	0.00	BD ATOM	1522	OE16	GLU	94	-14.432	-
2.180	5.241	1.00	0.00	BD ATOM	1397	N	TYR	83	-3.841	-	4.711	3.320	1.00	0.00	BD ATOM	1491	N	TYR	88	-14.369	-	0.901	0.673	1.00	0.00	BD ATOM	1523	OE17	GLU	94	-14.432	-
2.180	5.241	1.00	0.00	BD ATOM	1398	N	TYR	83	-3.841	-	5.717	3.320	1.00	0.00	BD ATOM	1492	N	TYR	88	-14.369	-	1.785	0.062	1.00	0.00	BD ATOM	1524	OE18	GLU	94	-14.432	-
2.180	5.241	1.00	0.00	BD ATOM	1399	N	TYR	83	-3.841	-	5.717	3.320	1.00	0.00	BD ATOM	1493	N	TYR	88	-14.369	-	0.210	-0.182	1.00	0.00	BD ATOM	1525	OE19	GLU	94	-14.432	-
2.180	5.241	1.00	0.00	BD ATOM	1400	HA	TYR	83	-5.427	-	5.288	4.492	1.00	0.00	BD ATOM	1494	HA	TYR	88	-15.012	-	0.508	1.079	1.00	0.00	BD ATOM	1526	OE20	GLU	94	-14.432	-
2.180	5.241	1.00	0.00	BD ATOM	1401	HB	TYR	83	-3.297	-	4.412	5.827	1.00	0.00	BD ATOM	1495	HB	TYR	88	-15.213	-	1.552	5.761	1.00	0.00	BD ATOM	1527	OE21	GLU	94	-14.432	-
4.516	5.240	1.00	0.00	BD ATOM	1402	HB	TYR	83	-3.297	-	4.412	5.827	1.00	0.00	BD ATOM	1496	HB	TYR	88	-15.213	-	1.552	5.761	1.00	0.00	BD ATOM	1528	OE22	GLU	94	-14.432	-
3.666	6.982	1.00	0.00	BD ATOM	1403	CO1	TYR	83	-4.283	-	4.336	4.956	1.00	0.00	BD ATOM	1497	CO	TYR	88	-15.816	-	1.552	5.761	1.00	0.00	BD ATOM	1529	OE23	GLU	94	-14.432	-
3.666	6.982	1.00	0.00	BD ATOM	1404	CO2	TYR	83	-4.283	-	3.023	6.192	1.00	0.00	BD ATOM	1498	CO	TYR	88	-15.816	-	1.552	5.761	1.00	0.00	BD ATOM	1530	OE24	GLU	94	-14.432	-
5.589	6.892	1.00	0.00	BD ATOM	1405	CE2	TYR	83	-4.283	-	2.421	6.597	1.00	0.00	BD ATOM	1499	CE	TYR	88	-14.578	-	1.511	5.485	1.00	0.00	BD ATOM	1531	OE25	GLU	94	-14.432	-
6.232	6.196	1.00	0.00	BD ATOM	1406	CE2	TYR	83	-4.283	-	2.559	5.311	1.00	0.00	BD ATOM	1500	CE	TYR	88	-13.925	-	1.511	7.007	1.00	0.00	BD ATOM	1532	OE26	GLU	94	-14.432	-
6.232	6.196	1.00	0.00	BD ATOM	1407	CE2	TYR	83	-4.283	-	3.072	7.263	1.00	0.00	BD ATOM	1501	CE	TYR	88	-13.925	-	1.511	7.007	1.00	0.00	BD ATOM	1533	OE27	GLU	94	-14.432	-
5.391	7.719	1.00	0.00	BD ATOM	1408	CE2	TYR	83	-4.283	-	3.072	7.263	1.00	0.00	BD ATOM	1502	CE	TYR	88	-13.925	-	1.511	7.007	1.00	0.00	BD ATOM	1534	OE28	GLU	94	-14.432	-
4.077	7.719	1.00	0.00	BD ATOM	1409	CE2	TYR	83	-4.283	-	1.906	7.655	1.00	0.00	BD ATOM	1503	CE	TYR	88	-13.925	-	1.511	7.007	1.00	0.00	BD ATOM	1535	OE29	GLU	94	-14.432	-
4.735	6.082	1.00	0.00	BD ATOM	1410	O	TYR	83	-6.391	-	1.099	7.336	1.00	0.00	BD ATOM	1504	O	TYR	88	-12.711	-	1.522	9.615	1.00	0.00	BD ATOM	1536	OE30	GLU	94	-14.432	-
3.956	4.082	1.00	0.00	BD ATOM	1411	N	ASN	84	-5.732	-	1.909	6.347	1.00	0.00	BD ATOM	1505	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1537	OE31	GLU	94	-14.432	-
3.956	4.082	1.00	0.00	BD ATOM	1412	N	ASN	84	-5.732	-	4.588	6.985	1.00	0.00	BD ATOM	1506	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1538	OE32	GLU	94	-14.432	-
3.956	4.082	1.00	0.00	BD ATOM	1413	CA	ASN	84	-7.458	-	4.658	6.985	1.00	0.00	BD ATOM	1507	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1539	OE33	GLU	94	-14.432	-
4.609	3.334	1.00	0.00	BD ATOM	1414	CA	ASN	84	-7.458	-	4.658	6.985	1.00	0.00	BD ATOM	1508	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1540	OE34	GLU	94	-14.432	-
4.609	3.334	1.00	0.00	BD ATOM	1415	HB	ASN	84	-7.458	-	4.658	6.985	1.00	0.00	BD ATOM	1509	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1541	OE35	GLU	94	-14.432	-
4.609	3.334	1.00	0.00	BD ATOM	1416	HB	ASN	84	-7.458	-	4.658	6.985	1.00	0.00	BD ATOM	1510	O	ASN	89	-16.332	-	0.114	9.116	1.00	0.00	BD ATOM	1542	OE36	GLU	94	-14.432	-
3.629	1.464	1.00	0.00	BD ATOM	1417	HB2	ASN	84	-6.118	-	6.058	7.470	1.00	0.00	BD ATOM	1511	O	ASN	89	-18.442	-	0.379	9.433	1.00	0.00	BD ATOM	1543	OE37	GLU	94	-14.432	-
5.086	1.035	1.00	0.00	BD ATOM	1418	CO	ASN	84	-8.115	-	7.132	8.258	1.00	0.00	BD ATOM	1512	O	ASN	89	-19.228	-	1.009	11.979	1.00	0.00	BD ATOM	1544	OE38	GLU	94	-14.432	-
5.086	1.035	1.00	0.00	BD ATOM	1419	CO1	ASN	84	-8.115	-	7.291	7.006	1.00	0.00	BD ATOM	1513	O	ASN	89	-19.228	-	0.319	11.594	1.00	0.00	BD ATOM	1545	OE39	GLU	94	-14.432	-
5.596	-0.113	1.00	0.00	BD ATOM	1420	NO2	ASN	84	-7.677	-	7.045	5.956	1.00	0.00	BD ATOM	1514	HB	ALA	90	-18.997	-	0.125	11.480	1.00	0.00	BD ATOM	1546	OE40	GLU	94	-14.432	-
5.596	-0.113	1.00	0.00	BD ATOM	1421	NO2	ASN	84	-7.677	-	7.045	5.956	1.00	0.00	BD ATOM	1515	HB	ALA	90	-18.997	-	0.125	11.480	1.00	0.00	BD ATOM	1547	OE41	GLU	94	-14.432	-
5.596	-0.113	1.00	0.00	BD ATOM	1422	NO2	ASN	84	-7.677	-	7.045	5.956	1.00	0.00	BD ATOM	1516	HB	ALA	90	-18.997	-	0.125	11.480	1.00	0.00	BD ATOM	1548	OE42	GLU	94	-14.432	-
6.466	-0.655	1.00	0.00	BD ATOM	1423	NO2	ASN	84	-7.677	-	7.045	5.956	1.00	0.00	BD ATOM	1517	HB	ALA	90	-18.997	-	0.125	11.480	1.00	0.00	BD ATOM	1549	OE43	GLU	94	-14.432	-
3.893	3.544	1.00	0.00	BD ATOM	1424	O	ASN	84	-8.745	-	5.557	9.817	1.00	0.00	BD ATOM	1518	O	ASN	89	-18.764	-	0.429	12.849	1.00	0.00	BD ATOM	1550	OE44	GLU	94	-14.432	-
4.677	4.051	1.00	0.00	BD ATOM	1425	N	CVS	85	-8																							

REPLACEMENT SHEET

4.534	5.217	1.00	0.00	BRD ATOM	1945	CD1	ILE	116	4.662
0.615	6.373	1.00	0.00	BRD ATOM	1946	HD11	ILE	116	3.870
0.073	5.875	1.00	0.00	BRD ATOM	1947	HD12	ILE	116	4.240
1.238	7.147	1.00	0.00	BRD ATOM	1948	HD13	ILE	116	5.356
1.326	8.143	1.00	0.00	BRD ATOM	1949	HD14	ILE	116	5.802
1.751	8.053	1.00	0.00	BRD ATOM	1950	O	ILE	116	7.602
0.544	8.154	1.00	0.00	BRD ATOM	1951	N	ASP	117	6.222
2.465	9.014	1.00	0.00	BRD ATOM	1952	NN	ASP	117	6.079
3.424	8.874	1.00	0.00	BRD ATOM	1953	CA	ASP	117	5.805
1.862	10.275	1.00	0.00	BRD ATOM	1954	HA	ASP	117	5.197
2.585	10.798	1.00	0.00	BRD ATOM	1955	CB	ASP	117	4.967
1.328	11.450	1.00	0.00	BRD ATOM	1956	HD1	ASP	117	5.564
0.267	10.220	1.00	0.00	BRD ATOM	1957	HD2	ASP	117	4.164
0.596	8.976	1.00	0.00	BRD ATOM	1958	CG	ASP	117	3.722
0.555	10.876	1.00	0.00	BRD ATOM	1959	OD1	ASP	117	2.897
1.488	10.787	1.00	0.00	BRD ATOM	1960	OD2	ASP	117	3.572
0.421	11.641	1.00	0.00	BRD ATOM	1961	C	ASP	117	7.006
1.305	11.154	1.00	0.00	BRD ATOM	1962	O	ASP	117	6.846
1.328	11.450	1.00	0.00	BRD ATOM	1963	N	ASP	118	8.205
1.897	10.725	1.00	0.00	BRD ATOM	1964	NN	LVS	118	9.183
2.384	9.879	1.00	0.00	BRD ATOM	1965	CA	LVS	118	9.416
1.613	11.488	1.00	0.00	BRD ATOM	1966	HA	LVS	118	10.248
2.063	10.968	1.00	0.00	BRD ATOM	1967	CB	LVS	118	9.315
2.220	12.889	1.00	0.00	BRD ATOM	1968	HD1	LVS	118	8.636
1.624	13.480	1.00	0.00	BRD ATOM	1969	HD2	LVS	118	10.292
1.328	11.450	1.00	0.00	BRD ATOM	1970	CG	LVS	118	8.018
3.656	12.895	1.00	0.00	BRD ATOM	1971	HD3	LVS	118	7.123
3.719	12.296	1.00	0.00	BRD ATOM	1972	HD2	LVS	118	8.595
3.946	13.911	1.00	0.00	BRD ATOM	1973	CD	LVS	118	9.857
4.608	12.327	1.00	0.00	BRD ATOM	1974	HD1	LVS	118	10.477
4.972	13.133	1.00	0.00	BRD ATOM	1975	HD2	LVS	118	10.468
4.073	11.613	1.00	0.00	BRD ATOM	1976	CE	LVS	118	9.208
5.725	11.521	1.00	0.00	BRD ATOM	1977	HE1	LVS	118	8.502
5.425	10.902	1.00	0.00	BRD ATOM	1978	HD3	LVS	118	8.353
6.386	12.369	1.00	0.00	BRD ATOM	1979	NZ	LVS	118	10.212
6.653	10.943	1.00	0.00	BRD ATOM	1980	HD1	LVS	118	11.163
6.458	11.316	1.00	0.00	BRD ATOM	1981	HD2	LVS	118	9.989
7.656	11.096	1.00	0.00	BRD ATOM	1982	HD3	LVS	118	10.206
6.459	9.921	1.00	0.00	BRD ATOM	1983	C	LVS	118	9.657
0.410	11.501	1.00	0.00	BRD ATOM	1984	OT1	LVS	118	9.047
0.180	12.503	1.00	0.00	BRD ATOM	1985	OT2	LVS	118	10.454
0.302	12.459	1.00	0.00	BRD END					-